

DWS ADMINISTRATION BUILDING FIRST FLOOR CONFERENCE ROOM REMODEL

FOR STATE OF UTAH DFCM

140 SOUTH 300 EAST
SALT LAKE CITY, UTAH 84111

DFCM PROJECT NO.: 06186920

DATE: SEPTEMBER 1, 2006



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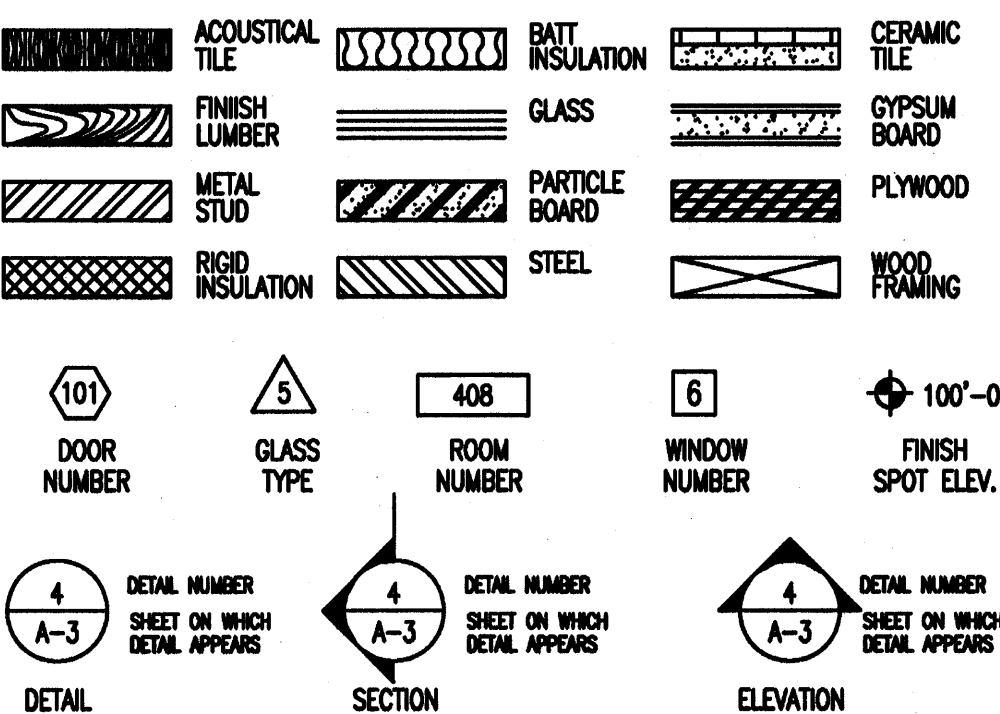
GENERAL NOTES

- CONTRACTOR TO FIELD VERIFY ALL DIMENSIONS AND EXISTING CONDITIONS. NOTIFY ARCHITECT OF ANY DISCREPANCIES.
- SUBMIT TO ARCHITECT SAMPLES OF ALL PROPOSED FINISHES FOR APPROVAL PRIOR TO COMMENCING WORK.
- COORDINATE USE OF PREMISES AND SCHEDULING OF WORK UNDER THE DIRECTION OF ARCHITECT AND OWNER'S REPRESENTATIVE.
- ALL ADJACENT SURFACES DAMAGED DUE TO WORK UNDER THIS CONTRACT SHALL BE PATCHED AND FINISHED TO MATCH EXISTING ADJACENT SURFACES.
- CONTRACTOR TO PROVIDE DUSTPROOF ENCLOSURES AT PERIMETER OF AREAS OF CONSTRUCTION AND DEMOLITION FOR PROTECTION OF ADJACENT SPACES.
- CONTRACTOR TO ALIGN EXISTING AND NEW WALLS - TYPICAL.
- REMOVE AND RELOCATE EXISTING FIRE ALARM BOXES, THERMOSTATS, SIGNS AND OTHER WALL OR CEILING MOUNTED DEVICES AS REQUIRED. CONTRACTOR TO FIELD VERIFY.
- RE-ROUTE ALL PIPING, CONDUIT AND DUCTWORK AS REQUIRED AT AREAS OF NEW CONSTRUCTION. RELOCATE ANY FIRE DAMPERS AND SLEEVE ALL NEW PENETRATIONS TO ENSURE 1 HOUR RATING AT CORRIDOR WALLS. PROVIDE NEW FIRE DAMPERS AS REQUIRED. CONTRACTOR TO FIELD VERIFY PRIOR TO BIDDING.
- PATCH EXISTING CONC. FLOOR SLABS, AS REQUIRED FOR NEW FINISHES, WITH FLOOR LEVELING COMPOUND: "POR-ROK" BY MINWAX CORP. OR AS APPROVED BY ARCHITECT.
- ALL WORK AND MATERIALS SHALL BE IN CONFORMANCE WITH THE LATEST FEDERAL, STATE AND LOCAL CODES, LAWS AND ORDINANCES, INCLUDING COMPLIANCE WITH THE AMERICANS WITH DISABILITIES ACT.
- THE GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR SUBMITTING THE CONSTRUCTION DOCUMENTS FOR PERMIT AND SECURING AND PAYING FOR ALL PERMITS AND FEES REQUIRED TO COMPLETE THIS PROJECT.
- DIMENSIONS ARE TO FACE OF FINISH, UNLESS NOTED OTHERWISE.
- ALL CHANGES IN FLOOR MATERIALS SHALL OCCUR AT CENTERLINE OF DOOR OR FRAMED OPENING UNLESS OTHERWISE NOTED.
- OBTAIN APPROVAL FROM BUILDING OWNER FOR USE OF PUBLIC AREAS NECESSARY FOR REMOVAL OF DEBRIS AND SUPPLY OF MATERIALS.
- PROTECT THE FIRE ALARM SYSTEM FROM FALSE ALARMS BY CONTAINING CONSTRUCTION DUST.
- ALL WORK TO BE IN ACCORDANCE WITH THE LATEST BUILDING AND CONSTRUCTION STANDARDS AS PROVIDED BY THE BUILDING OWNER. ANY DEVIATION FROM THESE STANDARDS IS TO BE WITH WRITTEN APPROVAL BY THE BUILDING OWNER ONLY.
- EXISTING FIRE SPRINKLER SYSTEM: THE GENERAL CONTRACTOR SHALL MODIFY EXISTING FIRE SPRINKLER SYSTEM FOR NEW LAYOUT OF WALLS SO IT MEETS CURRENT CODES.
- PATCH AND REPAIR EXISTING FIRE PROOFING AT FLOOR DECK, ROOF DECK, STRUCTURAL FRAME (BEAMS, COLUMNS,) AT NEW CONSTRUCTION CONNECTIONS TO EXISTING STRUCTURE.

ABBREVIATIONS

& L A.B. A.F.F. ALUM. APPROX.	AND ANGLE ANCHOR BOLT ABOVE FINISHED FLOOR ALUMINUM APPROXIMATE	L.F. LAV. LOC.	LINEAR FEET LAVATORY LOCATION
B.C. BD. BOT. BRG.	BEGIN CURVE BOARD BUILDING BOTTOM BEARING	MAX. MECH. MEZZ. MFG. MH MIN. MISC. M.O. MON. MTD.	MAXIMUM MECHANICAL MEZZANINE MANUFACTURER MANHOLE MINIMUM MISCELLANEOUS MASONRY OPENING MONUMENT MOUNTED
C.B. C.I. C.L. C.S. C.J. C.M.U. COL. CONC. CONT. CONTR.	CATCH BASIN CAST IRON CENTERLINE CEILING CONSTRUCTION JOINT CONCRETE MASONRY UNIT COLUMN CONCRETE CONTINUOUS CONTRACTOR	N N.I.C. NO. N.T.S.	NORTH NOT IN CONTRACT NUMBER NOT TO SCALE
D.B.E. DIA. DD DET. D.F. DN. DWGS.	DELTA ANGLE DECK BEARING ELEVATION DIAMETER DRAIN DETAIL DRAWINGS DOWN	O.C. O.D. OPP.	ON CENTER OUTSIDE DIAMETER OPPOSITE
E EA. E.C. E.G. E.J. ELEC. EL / ELEV. EQ. EQUIP. E.W.C. EXIST.	EAST END CURVE EXISTING GRADE EXPANSION JOINT ELECTRICAL/ELECTRIC ELEVATION EQUAL EQUIPMENT ELECTRIC WATER COOLER EXISTING	P.I. PL P. LAM.	POINT OF INTERSECTION PLATE PLASTIC LAMINATE
FND. F.D. F.E. F.E.C. F.G. FIN. F.S. FL F.L. FTG.	FOUNDATION FLOOR DRAIN FIRE EXTINGUISHER FIRE EXTINGUISHER CABINET FINISHED GRADE FINISH FINISHED SURFACE FLOOR FLOW LINE FOOTING	R R.D. REF. REINF. REQ'D REV. RM. R.O.	RADIUS ROOF DRAIN REFRIGERATOR REINFORCING REQUIRED REVISED ROOM ROUGH OPENING
GA. GALV. G.I. GYP.	GAUGE GALVANIZED GALVANIZED IRON GYPSUM	S S.C. SCHED. SDMH SHT. SIM.	SOUTH / SLOPE / SEWER SOLID CORE SCHEDULE STORM DRAIN MANHOLE SHEET SIMILAR
H.M. HORIZ. HT. H.W.	HOLLOW METAL HORIZONTAL HEIGHT HOT WATER	SPEC'S SQ. S.S. STA STD. STL. STOR. STRUCT. SUSP.	SPECIFICATIONS SQUARE STAINLESS STEEL STATION STANDARD STEEL STORAGE STRUCTURAL/STRUCTURE SUSPENDED
I.D. IMBED. IN. INV. INSUL.	INSIDE DIAMETER IMBEDDED/IMBEDMENT INCH INVERT INSULATION	T TEL. TEMP. T.G. T.&G. T.O. T.R TYP.	TANGENT TELEPHONE TEMPORARY TOP OF GRATE TONGUE AND GROOVE TOP OF TOP OF RIM TYPICAL
J-BOX JAN. JT.	JUNCTION BOX JANITOR JOINT	VERT. VEST.	VERTICAL VESTIBULE
		W W/ W.C. W/O W.R.	WEST / WATER WITH WATER CLOSET WITHOUT WATER RESISTANT

SYMBOL LEGEND



SCHEDULE OF ALTERNATES

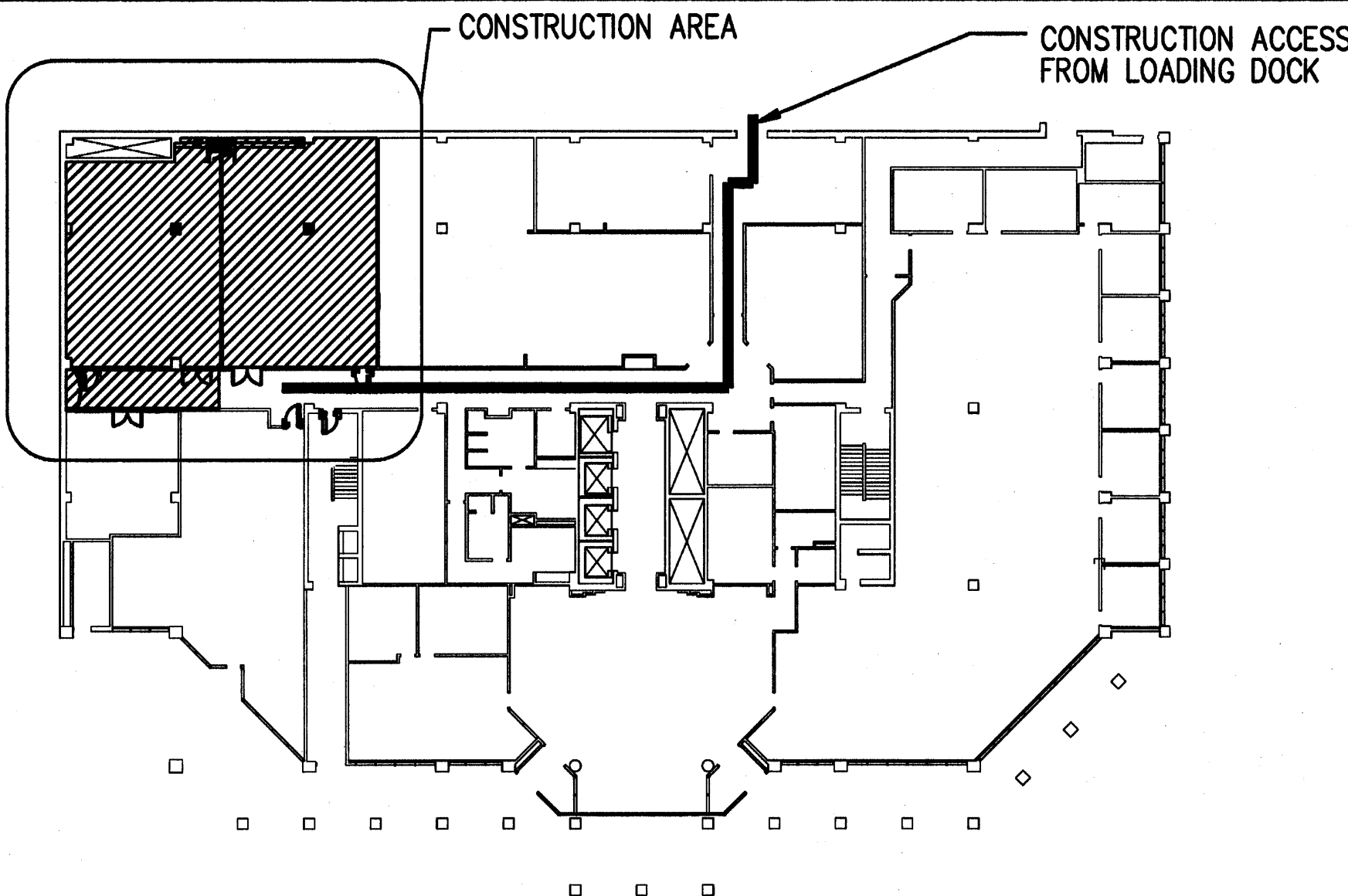
ALTERNATE "A": INSTALL BASE CABINETS IN BOTH CONFERENCE ROOMS #1 & #2. THIS ADDITIVE ALTERNATE INCLUDES ALL MATERIALS AND LABOR NECESSARY TO COMPLETE INSTALLATION.

ALTERNATE "B": PROVIDE SINK, FAUCET AND PLUMBING LINES LOCATED IN CONFERENCE ROOM #2. SAW CUT AND REPLACE FLOOR SLAB FOR PLUMBING LINE. THIS ADDITIVE ALTERNATE INCLUDES ALL MATERIALS AND LABOR NECESSARY TO COMPLETE INSTALLATION.

ALTERNATE "C": PROVIDE PROVIDE LIGHT DIMMING SYSTEM REFER TO ELECTRICAL DRAWINGS. THIS ADDITIVE ALTERNATE INCLUDES ALL MATERIALS AND LABOR NECESSARY TO COMPLETE INSTALLATION.

ALTERNATE "D": PROVIDE SINK, FAUCET AND PLUMBING LINES LOCATED IN CONFERENCE ROOM #1. SAW CUT AND REPLACE FLOOR SLAB FOR PLUMBING LINE. THIS ADDITIVE ALTERNATE INCLUDES ALL MATERIALS AND LABOR NECESSARY TO COMPLETE INSTALLATION.

KEY PLAN



LEVEL ONE KEY PLAN
SCALE: NTS

OWNER

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CONSULTANTS

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DESIGN CRITERIA EXISTING BUILDING TENANT REMODEL

APPLICABLE CODES:

BUILDING CODE: 2003 INTERNATIONAL BUILDING CODE.
ELECTRICAL CODE: 2005 INTERNATIONAL ELECTRICAL CODE.
PLUMBING CODE: 2003 INTERNATIONAL PLUMBING CODE.
MECHANICAL CODE: 2003 INTERNATIONAL MECHANICAL CODE.
ENERGY CODE: INTERNATIONAL ENERGY CONSERVATION CODE.
(ASHRAE/IEC 90.1 THRU 1999 REV.)

ACCESSIBILITY CODE: 2003 INTERNATIONAL BUILDING CODE
(ICC/ANSI A117.1-1998)

FIRE CODE: 2003 INTERNATIONAL FIRE CODE.

OCCUPANCY: GROUP A-3 (LECTURE HALL) IBC 311.3
TYPE OF CONSTRUCTION: 1-B(EXISTING) IBC TABLE 503
UNLIMITED SF ALLOWABLE AREA: (TOTAL AREA OF REMODEL 3,156 SF.)
IBC TABLE 503

NUMBER OF STORIES: 11 ALLOWED (6 EXISTING) IBC TABLE 503

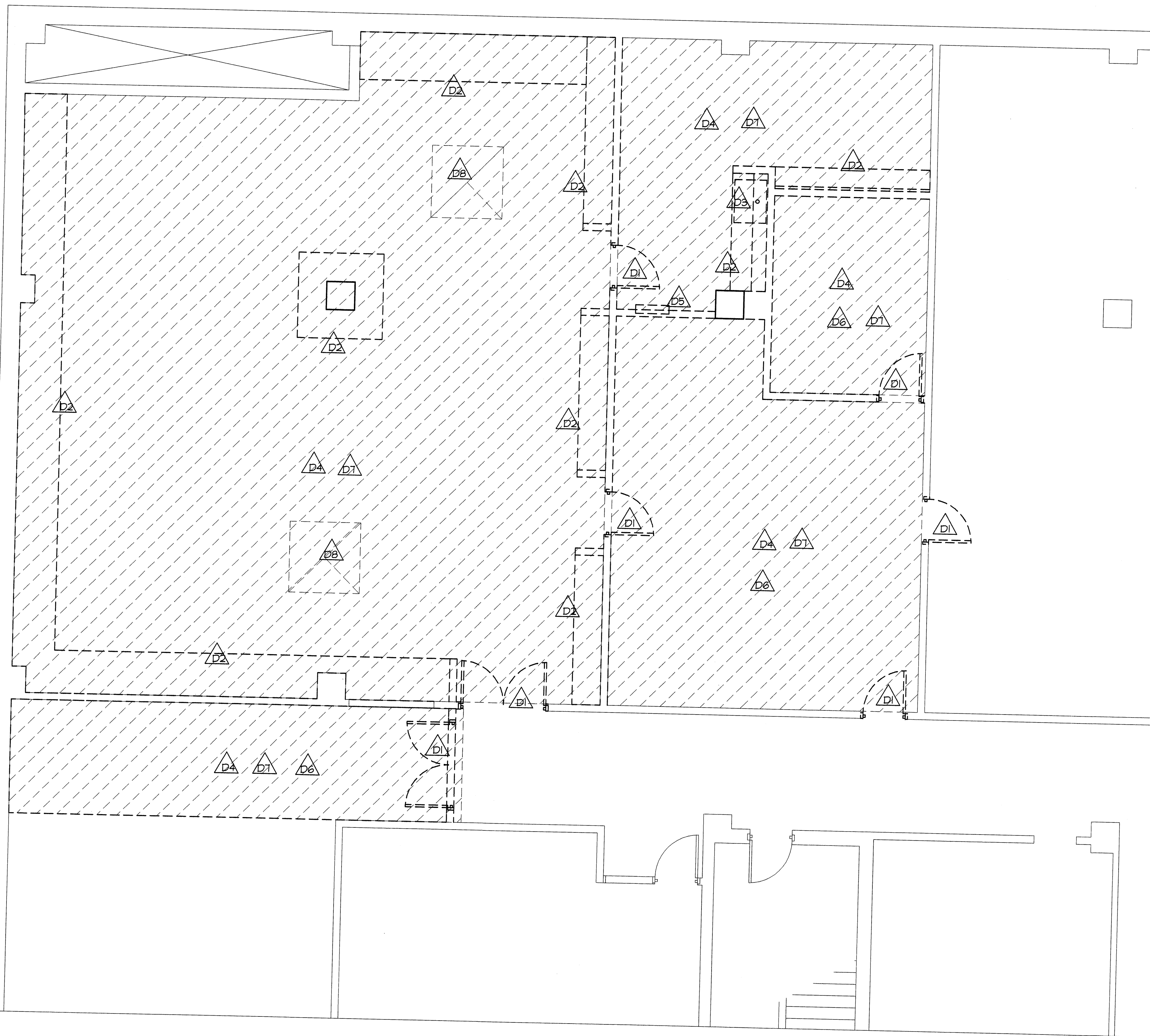
FIRE RATINGS: IBC TABLES 601 AND 602
STRUCTURAL FRAME: 2 HR RATED
BEARING WALLS: 2 HR RATED
NONBEARING WALLS AND PARTITIONS: NON RATED
FLOOR CONSTRUCTION: 2 HR RATED
ROOF CONSTRUCTION: 1 HR RATED

FIRE SPRINKLERS: YES IBC 903.2.9

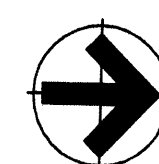
NUMBER OF OCCUPANTS: IBC TABLE 1004.1.2
CONF. RM #1: FLOOR AREA: 1,292 SF./15 SF/OCC= 86.1 OCCUPANTS
CONF. RM #2: FLOOR AREA: 1,566 SF./15 SF/OCC=104.4 OCCUPANTS
TOTAL=190.5 OCCUPANTS

EXIT ACCESS TRAVEL DISTANCE: 47 FEET (250 FEET REQUIRED) IBC
TABLE 1015.1
CORRIDOR FIRE-RESISTANCE RATING: NON RATED WITH SPRINKLER SYSTEM
IBC TABLE 1016.1
EGRESS CAPACITY: NUMBER OF EXITS: 2 PER ROOM (2 REQUIRED)
IBC TABLE 1018.2

ACCESSIBILITY: IBC CHAPTER 11



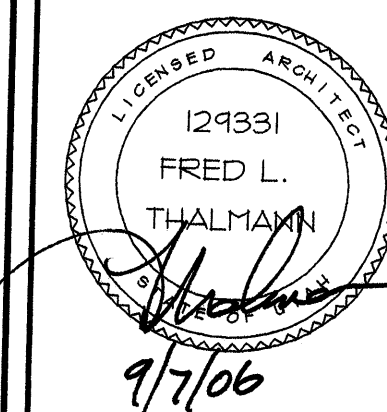
DEMOLITION PLAN
SCALE: 1/4"=1'-0"



DEMOLITION KEYED NOTES

- REMOVE AND DISPOSE OF EXISTING DOOR, FRAME AND HARDWARE.
- REMOVE AND DISPOSE OF EXISTING CABINETS AND SHELVING.
- REMOVE AND DISPOSE OF EXISTING SINK.
- SHADED AREA INDICATES TO REMOVE AND DISPOSE OF EXISTING CEILING GRID SYSTEM.
- REMOVE AND DISPOSE OF ELECTRICAL PANEL. REFER TO ELECTRICAL DRAWINGS.
- REMOVE AND DISPOSE OF EXISTING CARPET.
- REMOVE AND DISPOSE OF EXISTING BASE BOARD TYPICAL.
- REMOVE AND DISPOSE OF EXISTING CEILING EXHAUST HOOD. REFER TO MECHANICAL DRAWINGS.

Seal



Revisions:
No. Date Description



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Date: 9/01/06

Drawn: ---

Checked: FLT

Drawing Description
DEMOLITION PLAN

Drawing No.

D1-1

WALL TYPES

- EXISTING WALL
- EXISTING WALL TO BE REMOVED AND MATERIAL DISPOSED OF.

SPECIFICATIONS

DIVISION 1 - GENERAL REQUIREMENTS:

1. WORK RESTRICTIONS: COMPLY WITH LANDLORD'S CONSTRUCTION PROCEDURES, REQUIREMENTS AND RESTRICTIONS

2. CONTRACT MODIFICATIONS:
IF LATENT OR UNFORESEEN CONDITIONS REQUIRE MODIFICATIONS TO THE CONTRACT, THE CONTRACTOR MAY PROPOSE CHANGES BY SUBMITTING A REQUEST FOR A CHANGE ORDER ALONG WITH A DESCRIPTION OF THE EFFECT THE CHANGE WILL HAVE ON THE CONTRACT SUM & TIME, IF ANY. CONTRACTOR SHALL RESPOND TO OWNER INITIATED PROPOSAL REQUESTS IN A TIMELY MANNER. DO NOT PROCEED WITH THE WORK UNTIL RECEIPT OF A SIGNED CHANGE ORDER.

3. PROJECT MANAGEMENT:
CONTRACTOR SHALL EMPLOY A FULL TIME SUPERINTENDENT WHO WILL BE ON SITE WHENEVER WORK IS BEING PERFORMED. CONTRACTOR SHALL CONDUCT WEEKLY CONSTRUCTION MEETINGS WITH THE OWNER AND ARCHITECT, IN ADDITION TO CONTRACTOR'S OWN MEETINGS WITH SUBCONTRACTORS AND SUPPLIERS. CONTRACTOR TO RECORD SIGNIFICANT DISCUSSIONS AND AGREEMENTS MADE DURING CONSTRUCTION MEETINGS. THESE MEETING MINUTES ARE TO BE DISTRIBUTED TO EVERYONE CONCERNED, INCLUDING OWNER AND ARCHITECT, WITHIN 3 DAYS OF THE MEETING.

4. SUBMITTAL PROCEDURES:
CONTRACTOR SHALL PREPARE STANDARD SUBMITTALS OF ALL NEW FINISH MATERIALS UNLESS DIRECTED OTHERWISE. SUBMIT TO ARCHITECT FOR REVIEW AND APPROVAL. SUBMIT MECHANICAL & ELECTRICAL SUBMITTALS FOR REVIEW BY THE ENGINEERS PRIOR TO ORDERING EQUIPMENT.

5. SHOP DRAWING PROCEDURES:
CONTRACTOR TO PREPARE PROJECT-SPECIFIC INFORMATION, DRAWN ACCURATELY TO SCALE. DO NOT BASE SHOP DRAWINGS ON REPRODUCTIONS OF THE CONTRACT DOCUMENTS OR STANDARD PRINTED DATA.

6. CLOSEOUT PROCEDURES:
PRIOR TO REQUESTING A FINAL INSPECTION, CONTRACTOR SHALL SUBMIT A PUNCH LIST OF ITEMS TO BE COMPLETED OR CORRECTED, ALONG WITH REASONS WHY THE WORK IS NOT COMPLETE BEFORE FINAL COMPLETION, CONTRACTOR SHALL HAVE COMPLETED OR SUBMITTED THE FOLLOWING:
- FINAL PUNCH LIST SHOWING ALL ITEMS COMPLETED
- WARRANTIES, WORKMANSHIP BOND, MAINTENANCE SERVICE AGREEMENTS AND SIMILAR DOCUMENTS
- FINAL INSPECTION REPORT AND CERTIFICATE OF OCCUPANCY
- PROJECT RECORD DOCUMENTS AND AS-BUILT DOCUMENTS
- OPERATION AND MAINTENANCE MANUALS
- TESTING AND BALANCE REPORTS
- COMPLETE FINAL CLEANING AND TOUCH UP PAINT
- TOUCH UP AND OTHERWISE REPAIR AND RESTORE MARRED EXPOSED FINISHES TO ELIMINATE VISUAL DEFECTS.
- DELIVER TOOLS, SPARE PARTS, EXTRA MATERIALS, AND SIMILAR ITEMS TO LOCATION DESIGNATED BY OWNER. LABEL WITH MANUFACTURER'S NAME AND MODEL NUMBER WHERE APPLICABLE.

DIVISION 2 - SITE WORK: (NOT USED)

DIVISION 3 - CONCRETE:

1. CORE DRILL CONCRETE SLAB AS REQUIRED FOR PLUMBING OR ELECTRICAL PENETRATIONS. PROTECT FINISHES AND FURNISHINGS IN TENANT SPACES BELOW. DO NOT CUT OR DRILL STRUCTURAL MEMBERS. OBTAIN OWNER'S APPROVAL PRIOR TO PENETRATING CONCRETE SLAB OR WALLS.

DIVISION 4 - MASONRY: (NOT USED)

DIVISION 5 - MISC. METALS:

1. STEEL: ALL MISCELLANEOUS STEEL SECTIONS SHALL BE STANDARD COLD ROLLED SECTIONS CONFORMING TO ASTM A36. DO ALL WELDING PER A.W.S. SPECIFICATIONS.

DIVISION 6 - WOOD & PLASTICS:

1. PROVIDE BLOCKING, NAILERS, AND SIMILAR SUPPORT FOR SHELVING AND TO ALLOW ATTACHMENT OF OTHER WORK. USE FIRE TREATED WOOD OR PLYWOOD IN ANY CONCEALED SPACES OR WALLS.

2. COMPLY WITH QUALITY STANDARDS OF ARCHITECTURAL WOODWORK INSTITUTE.

3. SET WORK TO REQUIRED LEVELS AND LINES WITH MEMBERS PLUMB AND TRUE TO LINE AND CUT AND FITTED. SCRIBE AND COPE AS REQUIRED.

DIVISION 7 - THERMAL PROTECTION:

1. PROVIDE SOLID ATTENUATION INSULATION IN WALLS SHOWN WHICH INCLUDES DEMISING WALLS, WALLS ADJACENT TO PUBLIC RESTROOMS AND CONFERENCE ROOMS. MATERIAL TO COMPLY WITH FS HH-1-521, TYPE 1, SEMI-RIGID, CLASS 25 FLAME SPREAD, MINERAL FIBER BLANKET WITHOUT MEMBRANE. SEE FLOOR PLAN FOR WALL TYPES.

2. CAULK GAPS AND OPENING BETWEEN DISSIMILAR MATERIALS AS REQUIRED.

DIVISION 8 - DOORS & WINDOWS:

1. PROVIDE 5-PLY PARTICLE BOARD CORE FLUSH DOORS WITH WOOD VENEER FACE TO MATCH BUILDING STANDARDS. FINISH TO BE STAIN WITH AW TR-4 SYSTEM TO MATCH ARCHITECT'S SAMPLE. COMPLY WITH AW CUSTOM GRADE STANDARDS.

2. MACHINE DOORS FOR HARDWARE. SEAL CUT SURFACES AFTER FITTING.

3. INSTALL FRAMES PLUMB AND LEVEL. ALIGN AND FIT DOORS IN FRAMES WITH UNIFORM 1/8" CLEARANCES AND 1/8" IN 2" BEVELS, EXCEPT COMPLY WITH WITH NFPA 80 FOR CLEARANCES AND BEVELS ON FIRE-RATED ASSEMBLIES. UNDERCUT DOORS TO LEAVE 1/2" BETWEEN BOTTOM OF DOOR AND TOP OF CARPET.

4. PROVIDE HARDWARE MATCHING THE TYPE AND FINISH OF OTHER HARDWARE UTILIZED ELSEWHERE IN THE PROJECT. INCLUDE HINGES, LEVER TYPE LOCK CYLINDERS AND KEYS, DOOR STOPS, AND OTHER HARDWARE AS INDICATED. SUBMIT SCHEDULE AND SAMPLES FOR ARCHITECT'S APPROVAL. REFER TO DOOR AND HARDWARE SCHEDULE.

BELOW ARE APPROVED MANUFACTURER SUBSTITUTIONS:
- HINGES: BOMMER, STANLEY, HAGER
- LOCKS: SCHLAGE
- EXIT DEVICES: VON DUPRIN, PRECISION, CORBIN/RUSSWIN
- CLOSERS: LCN, YALE, CORBIN/RUSSWIN
- TRIM: QUALITY, TRIMCO
- THRESHOLDS & WEATHERSTRIPPING: PEMKO, NATIONAL GUARD, ULTRA

5. ALL KEYED LOCKS SHALL BE SUPPLIED WITH SCHLAGE KEYWAYS. COORDINATE WITH OWNER AND TENANT FOR KEYING INSTRUCTIONS.

6. PROVIDE HARDWARE MANUFACTURED TO CONFORM TO PUBLISHED TEMPLATES GENERALLY PREPARED FOR MACHINE-SCREW INSTALLATION. DO NOT PROVIDE HARDWARE WHICH HAS BEEN PREPARED FOR SELF-TAPPING SHEET METAL SCREWS. FURNISH PHILLIPS FLAT HEAD SCREWS, MATCHING ADJOINING FINISH, FOR INSTALLATION WITH EACH HARDWARE ITEM.

7. MOUNT HARDWARE UNITS AT HEIGHTS INDICATED IN "RECOMMENDED LOCATION FOR BUILDERS HARDWARE FOR STANDARD STEEL DOORS AND FRAMES." INSTALL IN ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS AND RECOMMENDATIONS, LEVEL, PLUMB, AND TRUE TO LINE AND LOCATION IN ACCORDANCE WITH INDUSTRY STANDARDS. ADJUST AND CHECK OPERATION AS NECESSARY.

DIVISION 9 - FINISHES:

1. LIGHT GAGE METAL FRAMING - PROVIDE AND INSTALL AS SHOWN ON PLANS.

A. PROVIDE WALL AND CEILING FRAMING OF THE TYPE AS SHOWN ON THE PLANS UTILIZING 3 5/8" STUDS AT 16" ON CENTER AND RUNNERS COMPLYING WITH ASTM C 645, WITH FLANGE EDGES OF STUDS BENT BACK 90 DEGREES AND DOUBLED OVER TO FORM 3/16" MINIMUM WITH; 0.0179" MINIMUM THICKNESS OF BASS METAL.

B. USE HAT-SHAPED OR Z-TYPE FURRING MEMBERS AGAINST MASONRY OR CONCRETE WALLS AND SCREW TYPE FASTENERS FOR ALL ATTACHMENTS AND CONNECTIONS.

C. PROVIDE CEILING SUPPORT MATERIALS AND SYSTEMS WHERE GYPSUM SOFFITS OR CEILINGS ARE CALLED FOR INCLUDING ALL RUNNERS, HANGING WIRE, FURRING MEMBERS, ANCHORAGE DEVICES, ETC.

D. COMPLY WITH ASTM C 754 INSTALLATION STANDARD. INSTALL CEILING AND WALL PARTITION SUPPORTS SYSTEM IN ACCORDANCE WITH APPLICABLE PUBLISHED RECOMMENDATIONS OF GYPSUM BOARD MANUFACTURER AND OF "GYPSUM CONSTRUCTION HANDBOOK" PUBLISHED BY UNITED STATES GYPSUM CO.

E. ISOLATE STUD SYSTEM FROM TRANSFER OF STRUCTURAL LOADING BOTH HORIZONTALLY AND VERTICALLY. PROVIDING SLIP OR CUSHIONED TYPE JOINTS TO OBTAIN LATERAL SUPPORT AND AVOID AXIAL LOADING. EXTEND PARTITION STUD SYSTEM THROUGH ACOUSTICAL CEILINGS EXCEPT AS OTHERWISE INDICATED AND BRACE TO STRUCTURAL DECK.

2. GYPSUM WALLBOARD - PROVIDE AND INSTALL AS SHOWN ON PLANS.

A. UNITED STATES GYPSUM "SHEETROCK" IS STANDARD OF QUALITY. COMPLY WITH ASTM C 36 FOR EXPOSED GYPSUM BOARD, 5/8" THICK, TYPE "X" FIRE CODE WITH TAPERED EDGE, USE EXTERIOR GRADE OR WATER RESISTANT TYPES IN AREAS RECOMMENDED BY MANUFACTURER.

B. PROVIDE CORNER BEADS, METAL TRIM, PERFORATED TAPE, AND DWA-14 ADHESIVES AND OTHER MISCELLANEOUS MATERIALS REQUIRED. FASTEN WITH GYPSUM BOARD SCREWS COMPLYING WITH ASTM C 646 AND C 1002.

C. USE PLAIN OR PERFORATED JOINT TAPE COMPLYING WITH ASTM G 475, AND JOINT COMPOUND ADHESIVES WITH OR WITHOUT FILLERS COMPLYING WITH ASTM 0475. PROVIDE PREMIXED, TWO-COMPOUND TREATMENT; ONE FOR BEDDING AND ANOTHER FOR JOINT FINISH TOPPING.

D. INSTALL AND FINISH GYPSUM BOARD TO COMPLY WITH ASTM C 840. INSTALL BOARDS ACROSS FRAMING IN A MANNER WHICH MINIMIZES OR AVOIDS COMPLETELY THE NUMBER OF END-BUTT JOINTS. STAGGER VERTICAL JOINTS OVER DIFFERENT STUDS ON OPPOSITE SIDES OF PARTITIONS. INSTALL TRIM AND FINISH AS REQUIRED.

3. ACOUSTICAL PANEL CEILINGS
1.1 CAST OR MOLDED, MINERAL-BASE ACOUSTICAL PANELS
A. USG Interiors: Eclipse ClimaPlus Face Cuts Illusion Two/24 (78085).
1. Size: 24" x 48" x 3/4"
2. Edge: Interline Tapered Lay-in.
3. STC: 35-39
4. NRC: .65-.75
5. Surface Finish: Factory-applied vinyl latex paint.

B. INSTALL SUSPENSION SYSTEM ACCORDING TO ASTM C 636, "RECOMMENDED PRACTICE TO INSTALLATION OF METAL CEILING SUSPENSION SYSTEMS FOR ACOUSTICAL TILE AND LAY-IN PANELS." USE MINIMUM 12 GAUGE HANGER WRES. SPACE AS REQUIRED (MAXIMUM 4 FEET ON CENTER). PROVIDE DIAGONAL, CROSS-WIRE BRACING IN ACCORDANCE WITH BUILDING CODE FOR SEISMIC BRACING.

C. COORDINATE WITH MECHANICAL AND ELECTRICAL; CUT EDGES AND OPENINGS NEAT AND CLEAN. MAINTAIN ALL UNITS CLEAN AND UNDAMAGED.

4. FLOOR COVERINGS - PROVIDE AND INSTALL AS SHOWN ON PLANS.
CARPET: CARPET TILE, TYPE 6 NYLON, SOLUTION DYED, STATE CONTRACT MA1865. CONTACT: HENRIKSEN/BUTLER, CHAD WINGET 924-5200

A. INSTALLER QUALIFICATIONS: AN EXPERIENCED INSTALLER WHO IS CERTIFIED BY THE FLOOR COVERING INSTALLATION BOARD OR WHO CAN DEMONSTRATE COMPLIANCE WITH ITS CERTIFICATION PROGRAM REQUIREMENTS.

B. GENERAL PROJECT CONDITIONS: COMPLY WITH CRI 104, SECTION 6.1, "SITE CONDITIONS; TEMPERATURE AND HUMIDITY."

C. ENVIRONMENTAL LIMITATIONS: DO NOT INSTALL CARPET UNTIL WET WORK IN SPACES IS COMPLETE AND DRY, AND AMBIENT TEMPERATURE AND HUMIDITY CONDITIONS ARE MAINTAINED AT THE LEVELS INDICATED FOR PROJECT WHEN OCCUPIED FOR ITS INTENDED USE.

D. DO NOT INSTALL FLOORING OVER CONCRETE SLABS UNTIL SLABS HAVE CURED AND ARE SUFFICIENTLY DRY TO BOND WITH ADHESIVE AND CONCRETE SLABS HAVE pH RANGE RECOMMENDED BY CARPET MANUFACTURER.

E. WHERE DEMOUNTABLE PARTITIONS OR OTHER ITEMS ARE INDICATED FOR INSTALLATION ON TOP OF FLOORING, INSTALL FLOORING BEFORE INSTALLING THESE ITEMS.

F. USE TROWELABLE LEVELING AND PATCHING COMPOUNDS, ACCORDING TO MANUFACTURER'S WRITTEN INSTRUCTIONS, TO FILL CRACKS, HOLES, AND DEPRESSIONS IN SUBSTRATE. TROWELABLE LEVELING AND PATCHING COMPOUNDS: LATEX-MODIFIED, HYDRAULIC-CEMENT-BASED FORMULATION PROVIDED BY OR RECOMMENDED BY FLOORING MANUFACTURER AND/OR CARPET CUSHION MANUFACTURER.

G. SURFACE PREPARATION: REMOVE COATINGS AND OTHER SUBSTANCES THAT ARE INCOMPATIBLE WITH ADHESIVES AND THAT CONTAIN SOAP, WAX, OIL OR SILICONE, WITHOUT USING SOLVENTS. ADHESIVES: WATER-RESISTANT, MILDEW RESISTANT, NONSTAINING TYPE TO SUITE PRODUCTS AND SUBFLOOR CONDITIONS INDICATED, THAT COMPLIES WITH FLAMMABILITY REQUIREMENTS FOR INSTALLED CARPET AND THAT IS RECOMMENDED BY THE CARPET MANUFACTURER AND/OR CARPET CUSHION MANUFACTURER.

H. COMPLY WITH CARPET MANUFACTURER'S WRITTEN RECOMMENDATIONS FOR SEAM LOCATIONS AND DIRECTION OF CARPET; MAINTAIN UNIFORMITY OF CARPET DIRECTION AND LAY OF PILE. AT DOORWAYS, CENTER SEAMS UNDER DOOR IN CLOSED POSITION.

I. METAL EDGE STRIPS: EXTRUDED ALUMINUM WITH MILL FINISH OF WIDTH AND HEIGHT REQUIRED TO PROTECT EXPOSED EDGE OF CARPET, AND OF MAXIMUM LENGTHS TO MINIMIZE RUNNING JOINTS.
5. RESILIENT WALL BASE - PROVIDE AND INSTALL AS SHOWN ON PLANS.

A. APPLY WALL BASE TO WALLS, COLUMNS, PILASTERS, CASEWORK AND CABINETS IN TOE SPACES, AND OTHER PERMANENT FIXTURES IN THE ROOMS AND AREAS WHERE BASE IS REQUIRED. DO NOT INSTALL PRODUCTS UNTIL THEY ARE AT THE SAME TEMPERATURE AS THE SPACE WHERE THEY ARE TO BE INSTALLED.

B. INSTALL BASE IN LENGTHS AS LONG AS PRACTICABLE WITHOUT GAPS AT SEAMS AND WITH TOPS OF ADJACENT PIECES ALIGNED.

C. TIGHTLY ADHERE WALL BASE TO SUBSTRATE THROUGHOUT LENGTH OF PIECE, WITH BASE IN CONTINUOUS CONTACT WITH HORIZONTAL AND VERTICAL SUBSTRATES. DO NOT STRETCH WALL BASE DURING INSTALLATION.

D. ON MASONRY SURFACES OR OTHER SIMILAR IRREGULAR SUBSTRATES, FILL VOIDS ALONG TOP EDGE OF WALL BASE WITH MANUFACTURER'S RECOMMENDED ADHESIVE FILLER MATERIAL.

E. PREMOLDED CORNERS: INSTALL PREMOLDED CORNERS BEFORE INSTALLING STRAIGHT PIECES.

F. JOB-FORMED CORNERS:
- OUTSIDE CORNERS: USE STRAIGHT PIECES OF MAXIMUM LENGTHS POSSIBLE. FORM WITHOUT PRODUCING DISCOLORATION (WHITENING) AT BENDS. SHAVE BACK OF BASE AT POINTS WHERE BENDS OCCUR AND REMOVE STRIPS PERPENDICULAR TO LENGTH OF BASE THAT ARE ONLY DEEP ENOUGH TO PRODUCE A SNUG FIT WITHOUT REMOVING MORE THAN HALF THE WALL BASE THICKNESS.
- INSIDE CORNERS: USE STRAIGHT PIECES OF MAXIMUM LENGTHS POSSIBLE. FORM BY CUTTING AN INVERTED V-SHAPE NOTCH IN TOE OF WALL BASE AT THE POINT WHERE CORNER IS FORMED. SHAVE BACK OF BASE WHERE NECESSARY TO PRODUCE SNUG FIT TO SUBSTRATE.

6. PAINTING - PROVIDE AND INSTALL AS SHOWN ON PLANS.

A. SURFACE PREPARATION: CLEAN AND PREPARE SURFACES TO BE PAINTED ACCORDING TO MANUFACTURER'S WRITTEN INSTRUCTIONS FOR EACH PARTICULAR SUBSTRATE CONDITION.

B. GENERAL APPLICATION: PAINT ALL WALLS AND OTHER EXPOSED MATERIALS AS INDICATED ON PLANS. APPLY PAINT ACCORDING TO MANUFACTURER'S WRITTEN INSTRUCTIONS. USE APPLICATORS AND TECHNIQUES BEST SUITE FOR SUBSTRATE AND TYPE OF MATERIAL BEING APPLIED. DO NOT PAINT OVER DIRT, RUST, SCALE, GREASE, MOISTURE, SCUFFED SURFACES, OR CONDITIONS DETRIMENTAL TO FORMATION OF A DURABLE PAINT FILM. COMPLETELY COVER SURFACES AS NECESSARY TO PROVIDE A SMOOTH, OPAQUE SURFACE OF UNIFORM FINISH, COLOR, APPEARANCE, AND COVERAGE. CLOUDINESS, SPOTTING, HOLIDAYS, LAPS, BRUSH MARKS, RUNS, SAGS, ROPINESS, OR OTHER SURFACE IMPERFECTIONS WILL NOT BE ACCEPTABLE.

C. APPLY ONE PRIME-COAT AND TWO FINISH COATS OF EGGSHELL FINISH OR SEMI-GLOSS ALKYD ENAMEL OR ACRYLIC LATEX PAINT. (REFER TO ROOM FINISH SCHEDULE.) SUBMIT SAMPLES FOR ARCHITECTS APPROVAL BEFORE BEGINNING WORK.

D. MINIMUM COATING THICKNESS: APPLY PAINT MATERIALS NO THINNER THAN MANUFACTURER'S RECOMMENDED SPREADING RATE TO ACHIEVE DRY FILM THICKNESS INDICATED. PROVIDE TOTAL DRY FILM THICKNESS OF THE ENTIRE SYSTEM AS RECOMMENDED BY MANUFACTURER.

E. PROTECT ALL ADJOINING SURFACES BY MASKING OR PLACING OTHER PROTECTIVE COVERINGS ON VERTICAL AND HORIZONTAL SURFACES. CLEAN DIPS, SPILLS, AND OVER-SPRAY.

DWS ADMINISTRATION BUILDING
FIRST FLOOR CONFERENCE ROOM REMODEL
FOR THE STATE OF UTAH FROM
140 EAST 300 SOUTH
SALT LAKE CITY, UTAH 84111

Date: 9/01/06
Drawn: ---
Checked: FLT
Drawing Description
SPECIFICATIONS
Drawing No. A-1-O

Seal
129331
FRED L. THALMANN
9/7/06
Revisions:
No. Date Description

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SPECIFICATIONS

DIVISION 10 - SPECIALTIES:

SECTION 10100 - VISUAL DISPLAY BOARDS

A. 8x4' Porcelain Enamel Markerboards:

- Provide balanced, high-pressure- laminated porcelain enamel chalkboards of 3-ply construction consisting of face sheet, core material, and backing.
- (1) Face Sheet: Provide face sheet of 24-gage enameling grade steel especially processed for temperatures used in coating porcelain on steel. Coat the exposed face and exposed edges with a 3-coat process consisting of primer, ground coat, and color cover coat, and the concealed face with a 2-coat process consisting of primer and ground coat. Fuse cover and ground coats to steel at the manufacturer's standard firing temperatures, but not less than 1200 deg F (649 deg C).
- (a) Cover Coat: Provide the manufacturer's standard light-colored special writing surface with gloss finish intended for use with liquid felt-tipped markers.
- (2) Core: Provide the manufacturer's standard 3/8-inch-thick particleboard core material complying with the requirements of ANSI A208.1, Grade 1-M-1.
- (3) Backing Sheet: Provide the manufacturer's standard 0.015-inch- thick aluminum sheet backing.
- (4) Laminating Adhesive: Provide the manufacturer's standard moisture-resistant thermoplastic-type adhesive.

SECTION 10520 - FIRE-PROTECTION SPECIALTIES

PORTABLE FIRE EXTINGUISHERS

A. Available Manufacturers:

1. Amerex Corporation.
2. Badger Fire Protection.
3. J.L. Industnes, Inc.
4. Potter Roemer; Div. of Smith Industnes, Inc.
- B. General: Provide fire extinguishers of type, size, and capacity for each fire-protection cabinet and mounting bracket indicated.

1. Valves: Manufacturer's standard.
2. Handles and Levers: Manufacturer's standard.
3. Instruction Labels: Include pictorial marking system complying with NFPA 10, Appendix B.

C. Multipurpose Dry-Chemical Type in Steel Container: UL-rated 4-A:60-B:C, 10-lb(4.5-kg) nominal capacity, with monoammonium phosphate-based dry chemical in enameled-steel container.

2.4 FIRE-PROTECTION CABINET

A. Available Manufacturers:

1. General Accessory Mfg. Co.
2. J.L. Industnes, Inc.
3. Larsen's Manufacturing Company.
4. Potter Roemer; Div. of Smith Industnes, Inc.
- B. Cabinet Type: Suitable for fire extinguisher.

C. Cabinet Construction: Nonrated.

D. Cabinet Material: Enameled-steel sheet.

1. Shelf: Same metal and finish as cabinet.

E. Semirecessed Cabinet: Cabinet box partially recessed in walls of shallow depth to suit style of trim indicated; with one-piece combination trim and perimeter door frame overlapping surrounding wall surface with exposed trim face and wall return at outer edge (backbend).

1. Rolled-Edge Trim: 2-1/2-inch(64-mm) backbend depth.

F. Cabinet Trim Material: Steel sheet.

G. Door Material: Steel sheet.

H. Door Style: Vertical duo panel with frame.

I. Door Glazing: Acrylic sheet.

1. Acrylic Sheet Color: Clear transparent acrylic sheet.

J. Door Hardware: Manufacturer's standard door-operating hardware of proper type for cabinet type, trim style, and door material and style indicated.

1. Provide recessed door pull and friction latch.

2. Provide continuous hinge, of same material and finish as trim, permitting door to open 180 degrees.

K. Accessories:

1. Mounting Bracket: Manufacturer's standard steel, designed to secure fire extinguisher to fire-protection cabinet, of sizes required for types and capacities of fire extinguishers indicated, with plated or baked-enamel finish.

2. Identification: Lettering complying with authorities having jurisdiction for letter style, size, spacing, and location. Locate as indicated by Architect.

- a. Identify fire extinguisher in fire-protection cabinet with the words "FIRE EXTINGUISHER."

1) Location: Applied to cabinet door.

2) Application Process: Pressure-sensitive vinyl letters.

3) Lettering Color: Red.

4) Orientation: Vertical.

L. Finishes:

1. Manufacturer's standard baked-enamel paint for the following:

a. Exterior of cabinet, door, and trim, except for those surfaces indicated to receive another finish.

b. Interior of cabinet and door.

2. Steel: Baked enamel.

a. Color and Texture: As selected by Architect from manufacturer's full range.

2.5 MOUNTING BRACKETS

A. Mounting Brackets: Manufacturer's standard galvanized steel, designed to secure fire extinguisher to wall or structure, of sizes required for types and capacities of fire extinguishers

SECTION 10650 OPERABLE PARTITIONS

SPECIFICATION - SECTION 10650 OPERABLE PARTITIONS

PART 1: GENERAL

1.1 SUMMARY

A. This Section includes the following:

1. Electrically operated, continuous panel operable partitions.
- B. Related Sections include the following:
1. Division 3 Sections for concrete tolerances required.
2. Division 5 Sections for primary structural support, including pre-punching of support members by structural steel supplier per operable partition supplier's template.
3. Division 6 Sections for wood framing and supports, and all blocking at head and jambs as required.
4. Division 9 Sections for wall and ceiling framing at head and jambs.

1.2 DELIVERY, STORAGE, AND HANDLING

A. Clearly mark packages and panels with numbering systems used on Shop Drawings. Do not use permanent markings on panels.

B. Protect panels during delivery, storage, and handling to comply with manufacturer's direction and as required to prevent damage.

1.3 WARRANTY

A. Provide written warranty by manufacturer of operable partitions agreeing to repair or replace any components with manufacturing defects.

B. Warranty period: Two (2) years from date of shipment.

PART 2 - PRODUCTS

2.1 MANUFACTURERS, PRODUCTS, AND OPERATIONS

A. Manufacturers: Subject to compliance with requirements, provide products by the following:

1. Modernfold, Inc.

B. Products: Subject to compliance with the requirements, provide the following product:

1. Acousti-Seal #933E operable partition, continuously hinged panels.

2.2 OPERATION

A. Acousti-Seal #933E: Series of flat panels, electrically operated, top supported with automatic floor seals.

B. Partition shall be operated by two (2) control stations wired in series and located on opposite sides of the partition. The drive unit motor shall be equipped with limit switches to prevent over-extension and shall have an adjustable clutch type overload device. A positive-chain drive attached to the lead panel shall pull the partition across the opening. Cable, belt or other friction type drives will not be accepted.

C. Electric motor shall consist of:

1. OP-01: A 208-volt, 3-phase, 1-horsepower, 60 hertz motor.

2.3 PANEL CONSTRUCTION

B. Panel skin shall be:

1. Nominal 21 ga. Roll-formed steel wrapping around the panel edge. Panel skins shall be lock formed and welded directly to the frame for unitized construction. Acoustical ratings of panels with this construction:

a. 50 STC

C. Hinges for Panels, Closure Panels, Pass Doors, and Pocket Doors shall be:

1. Full leaf butt hinges

D. Panel Trim: No vertical trim required or allowed on edges of panels; minimal groove appearance at panel joints.

E. Panel Weights:

1. 50 STC - 8 lbs./square foot

2.4 PANEL FINISH

A. Panel finish shall be factory applied, Class "A" rated material. Finish shall be:

1. Woven Fabric.

2.5 SOUND SEALS

A. Vertical Interlocking Sound Seals between panels: Roll-formed steel astragals

B. Horizontal Top Seals: Continuous contact extruded vinyl bulb shape

C. Horizontal bottom floor seals shall be Modernfold Floating Bottom Seal.

2.6 SUSPENSION SYSTEM

A. OP-01: #14 Suspension System

1. Suspension Tracks: Minimum 7-gauge, 0.18-inch (4.57mm) roll formed steel. Track shall be supported by adjustable steel hanger brackets connected to structural support pairs of 0.50-inch (13mm) diameter threaded rods. Brackets must support the load bearing surface of the track.

a. Exposed track soffit: Steel, removable for service and maintenance, attached to track bracket without exposed fasteners, and pre-painted off-white.

2. Carriers: Trolleys shall be all-steel trolley with four or eight steel tired ball-bearing wheels. Non-steel tires are not acceptable.

PART 3: EXECUTION

3.1 INSTALLATION

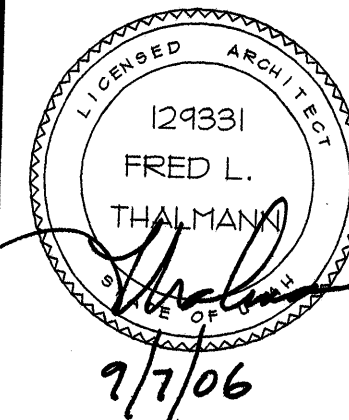
A. General: Comply with ASTM E557, operable partition manufacturer's written installation instructions, Drawings and approved Shop Drawings.

DIVISION 11-14 - EQUIPMENT, FURNISHINGS, SPECIAL CONSTRUCTION & CONVEYING SYSTEMS: (NOT USED)

DIVISION 15 - HVAC & PLUMBING: (REFER TO MECHANICAL PLANS)

DIVISION 16 - ELECTRICAL: (REFER TO ELECTRICAL PLANS)

Seal



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FOR THE STATE OF UTAH DECM
140 EAST 300 SOUTH
SALT LAKE CITY, UTAH 84111

Date: 9/01/06

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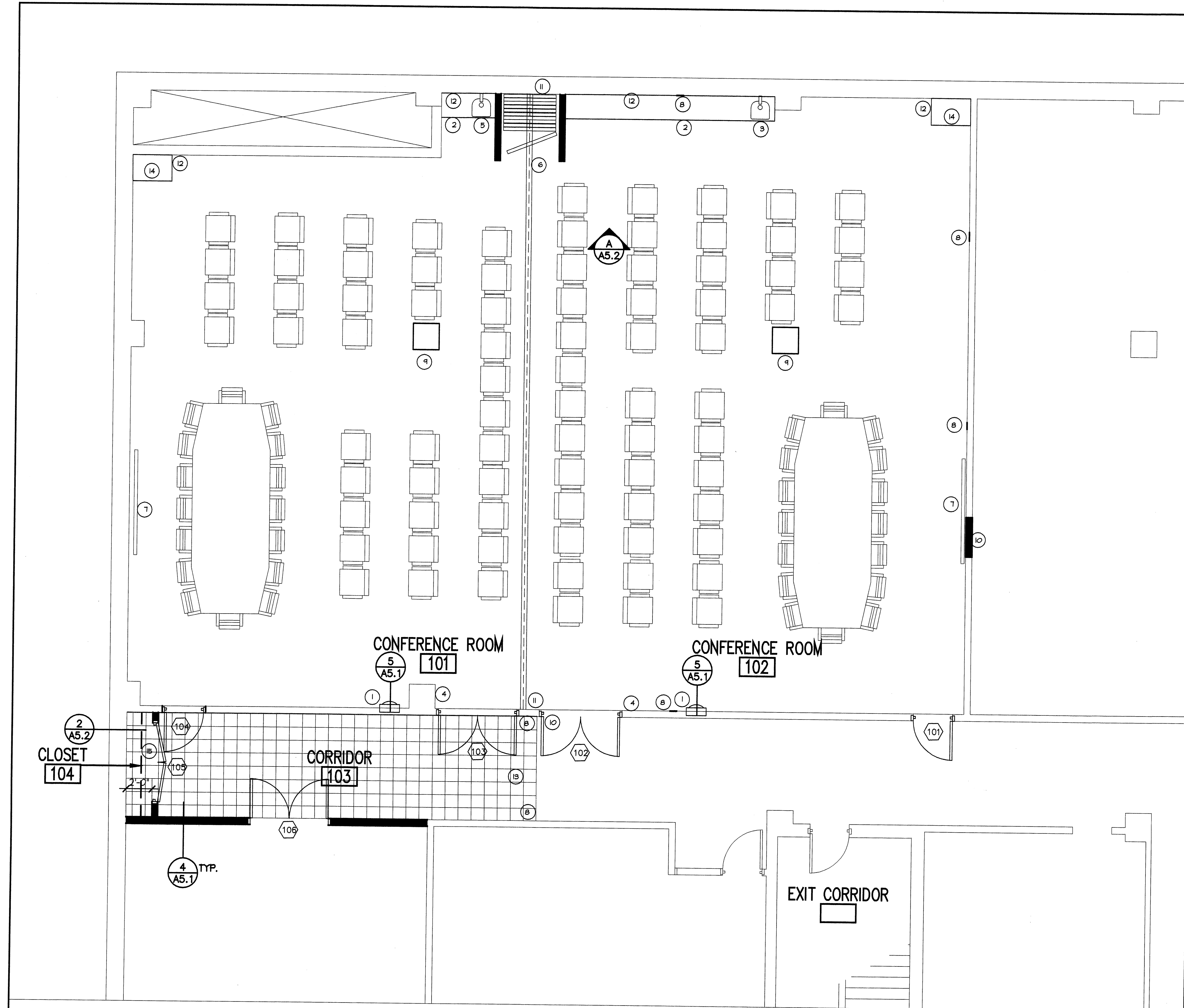
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Drawing Description

SPECIFICATIONS

Drawing No.

A1-01



GENERAL NOTES

1. PROVIDE BLOCKING IN WALLS FOR CABINETS, COORDINATE WITH OWNER.
2. DIMENSIONS ARE FROM FINISHED SURFACE OF WALL.
3. PATCH AND REPAIR EXISTING WALLS, CEILING AND FLOOR WHERE EXISTING WALLS WERE REMOVED.
4. FURNITURE BY OWNER.

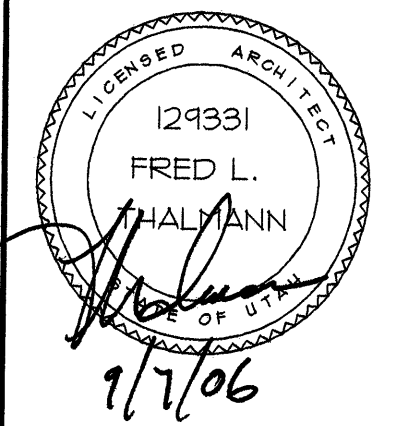
WALL TYPES

- EXISTING WALL
- 1 HOUR RATED WALL: 3 5/8" 20 GA METAL STUDS AT 16" O.C. WITH 5/8" GYP. BD. TYPE "X" BOTH SIDES PAINTED; WITH R-11 SOUND BATT INSULATION. EXTEND TO DECK. REFER TO WALL TYPE I.

KEY NOTES

- 1 SEMI RECESS FIRE EXTINGUISHER CABINET AND 10# TYPE B EXTINGUISHER
- 2 BASE CABINETS (ALTERNATE "A")
- 3 STAINLESS STEEL SINK, FAUCET AND PLUMBING REFER TO MECHANICAL DRAWINGS. (ALTERNATE "B")
- 4 LIGHT DIMMING SYSTEM REFER TO ELECTRICAL DRAWINGS. (ALTERNATE "C")
- 5 STAINLESS STEEL SINK, FAUCET AND PLUMBING REFER TO MECHANICAL DRAWINGS. (ALTERNATE "D")
- 6 ELECTRIC MOVABLE SOUND PARTITION WALL. REFER TO SPECIFICATIONS.
- 7 8'x4' WIDE WHITE BOARD. REFER TO SPECIFICATIONS.
- 8 PATCH AND REPAIR EXISTING WALL WHERE WALL WAS REMOVED.
- 9 EXISTING STRUCTURAL COLUMN.
- 10 INFILL EXISTING WALL OPENING REFER TO WALL TYPES FOR DETAILS
- 11 GENERAL CONTRACTOR SHALL PROVIDE BLOCKING IN WALL FOR MOVABLE PARTITION JAMBS. COORDINATE WITH DOOR SUPPLIER.
- 12 GENERAL CONTRACTOR SHALL PROVIDE BLOCKING IN WALL FOR CABINETS. COORDINATE WITH CABINET SUPPLIER.
- 13 VCT FLOORING & BASE MATCH EXISTING STYLE AND COLOR.
- 14 BASE CABINETS FOR A/V EQUIPMENT (BASE BID).
- 15 ROD AND SHELF AT CLOSET.

Seal



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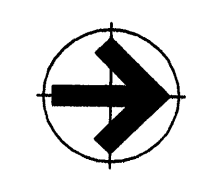
DWS ADMINISTRATION BUILDING
FIRST FLOOR CONFERENCE ROOM REMODEL
FOR THE STATE OF UTAH DFCM
140 EAST 300 SOUTH
SALT LAKE CITY, UTAH 84111

Date: 9/01/06
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Drawing Description
LEVEL 1
FLOOR PLAN

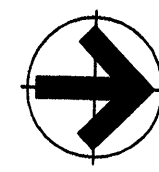
Drawing No.
A1-1

LEVEL 1 FLOOR PLAN
SCALE: 1/4"=1'-0"





REFLECTED CEILING PLAN
SCALE: 1/4"=1'-0"



GENERAL NOTES

1. PROVIDE BLOCKING IN WALLS FOR CABINETS, COORDINATE WITH OWNER.
2. DIMENSIONS ARE FROM FINISHED SURFACE OF WALL.
3. PATCH AND REPAIR EXISTING WALLS, CEILING AND FLOOR WHERE EXISTING WALLS WERE REMOVED.

KEY NOTES

- 1 EXISTING LOCATION OF FIRE SPRINKLER HEADS. RELOCATE HEADS AND MODIFY SYSTEM FOR NEW CONFERENCE ROOM LAYOUT.
- 2 ELECTRIC MOVABLE SOUND PARTITION WALL.
- 3 CEILING MOUNTED PROJECTOR. REFER TO ELECTRICAL DRAWING.
- 4 EXISTING STRUCTURAL COLUMN.
- 5 EXISTING COVE LIGHT SYSTEM.
- 6 NEW COVE LIGHT SYSTEM MATCH EXISTING.
- 7 SOUND PARTITION WALL FROM MOVABLE WALL HEAD TO DECK ABOVE: 3 5/8" 20 GA. METAL STUDS AT 16" O.C. WITH 2 LAYERS OF 5/8" GYPSUM BOARD AND R-11 SOUND BATT SOUND INSULATION. REFER TO DETAIL 6/A5-1.

LEGEND

- 2 X 4 FLOURESCENT LIGHT FIXTURE
- EXIT LIGHT
- RECESSED CAN FLOURESCENT LIGHT FIXTURE
- HVAC SUPPLY AIR GRILL
- HVAC RETURN AIR GRILL
- FIRE SPRINKLER HEAD (EXISTING) REFER TO KEY NOTE 1

CEILING TYPES

- A**
Height 2' X 4' WITH SINGLE SCORE, SUSPENDED ACOUSTICAL CEILING GRID SYSTEM
- B**
Height 2' X 2' ACOUSTICAL CEILING TILE GRID SYSTEM (MATCH EXISTING).
- C**
Height EXISTING 2' X 2' ACOUSTICAL CEILING TILE GRID SYSTEM.

Seal

129331
FRED L.
THALMANN
7/7/06

Revisions:
No. Date Description

THALMANN
ARCHITECT

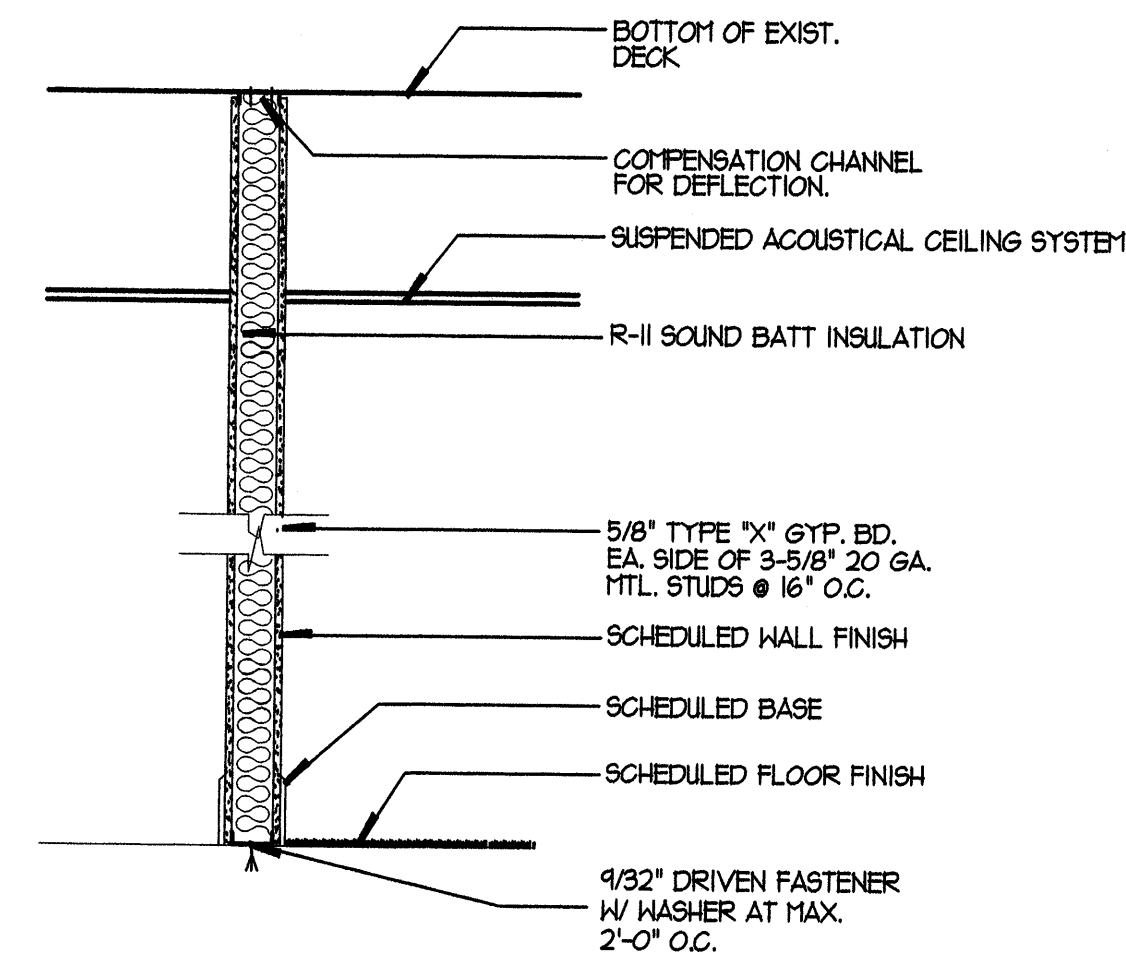
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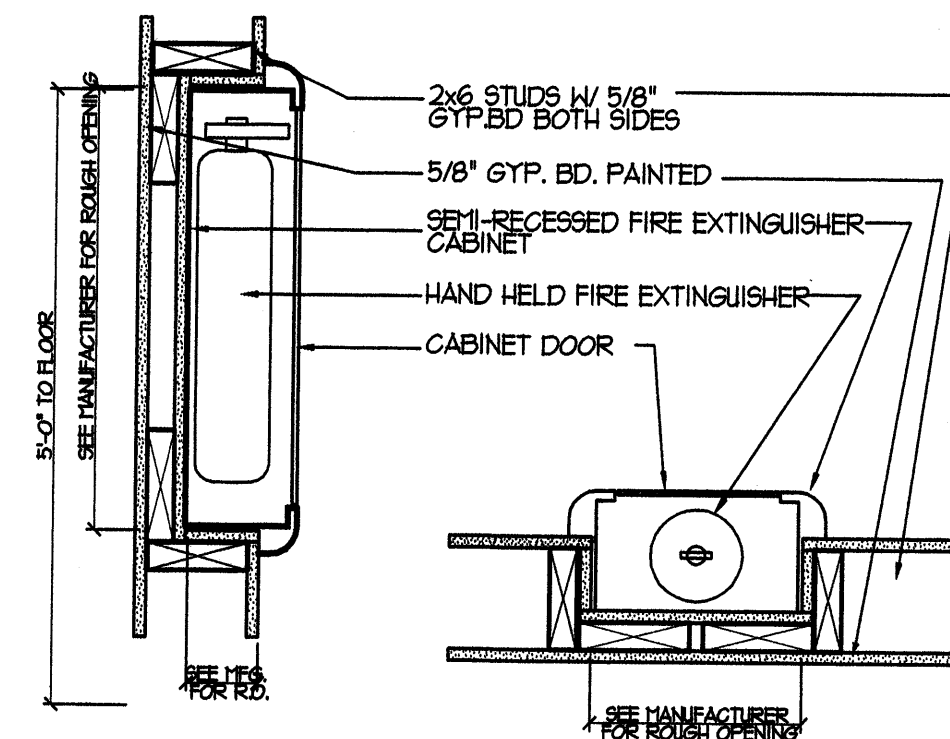
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Drawing Description
**REFLECTED
CEILING PLAN**

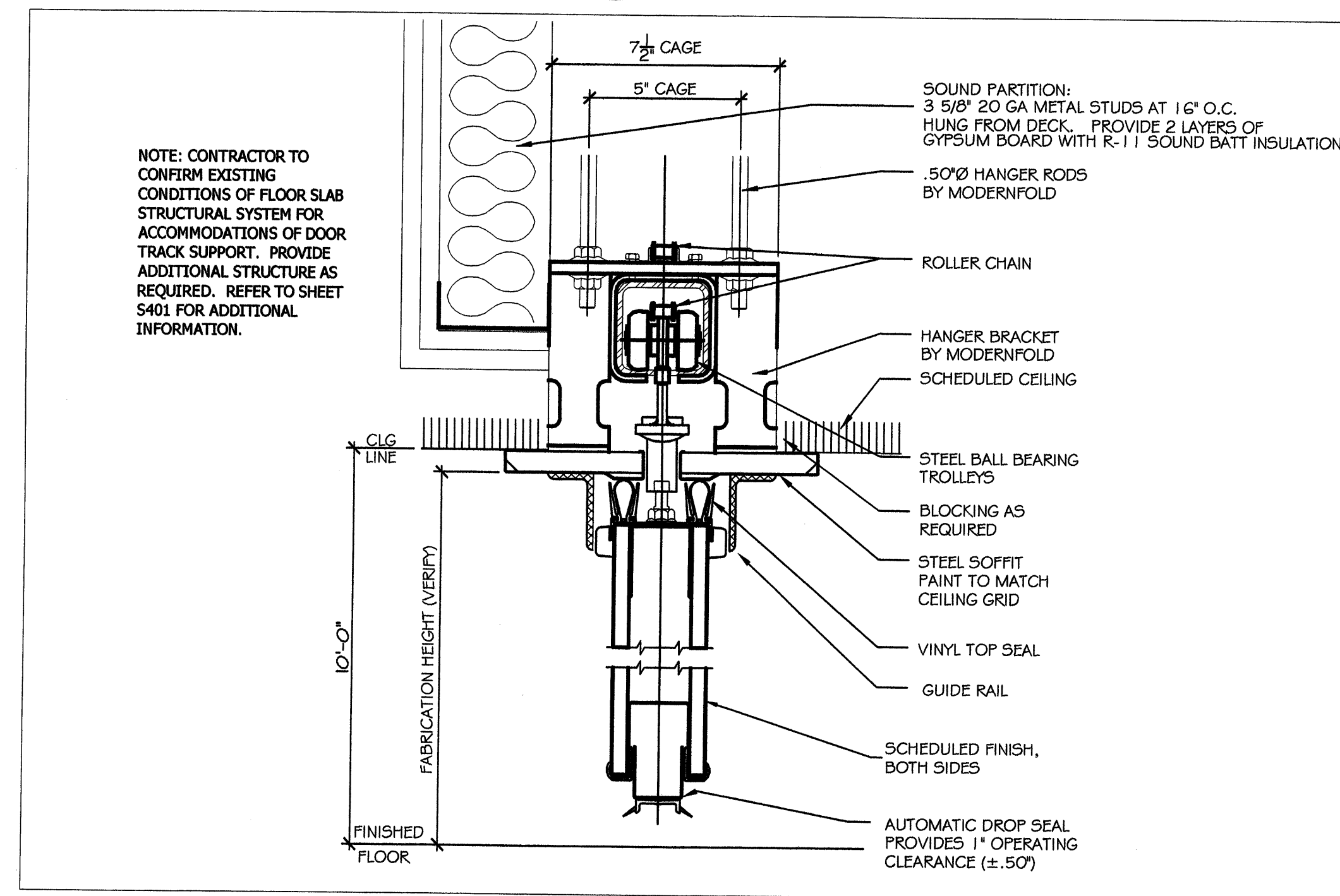
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A1-2



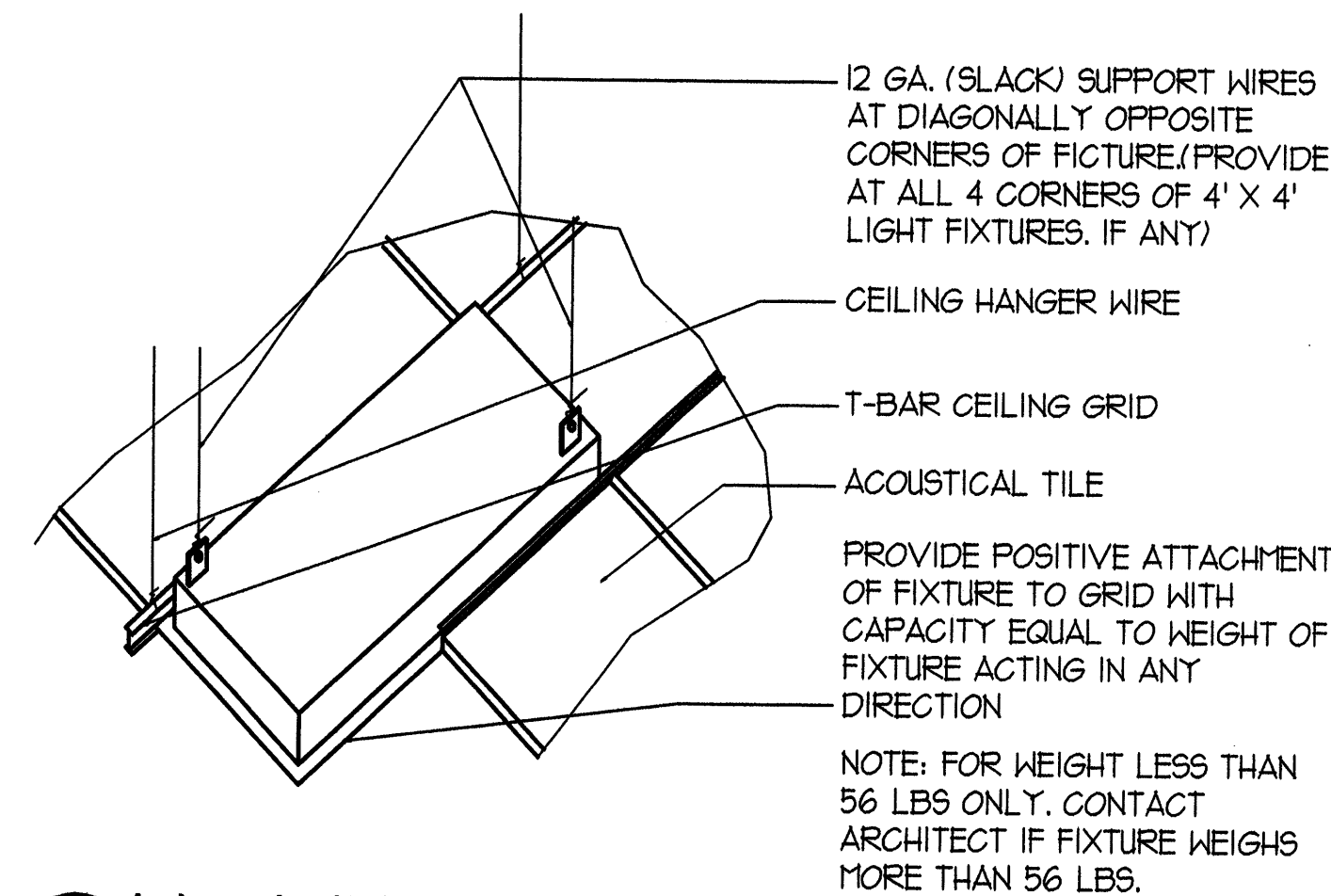
4 WALL TYPE (1HR RATED)
SCALE: NTS



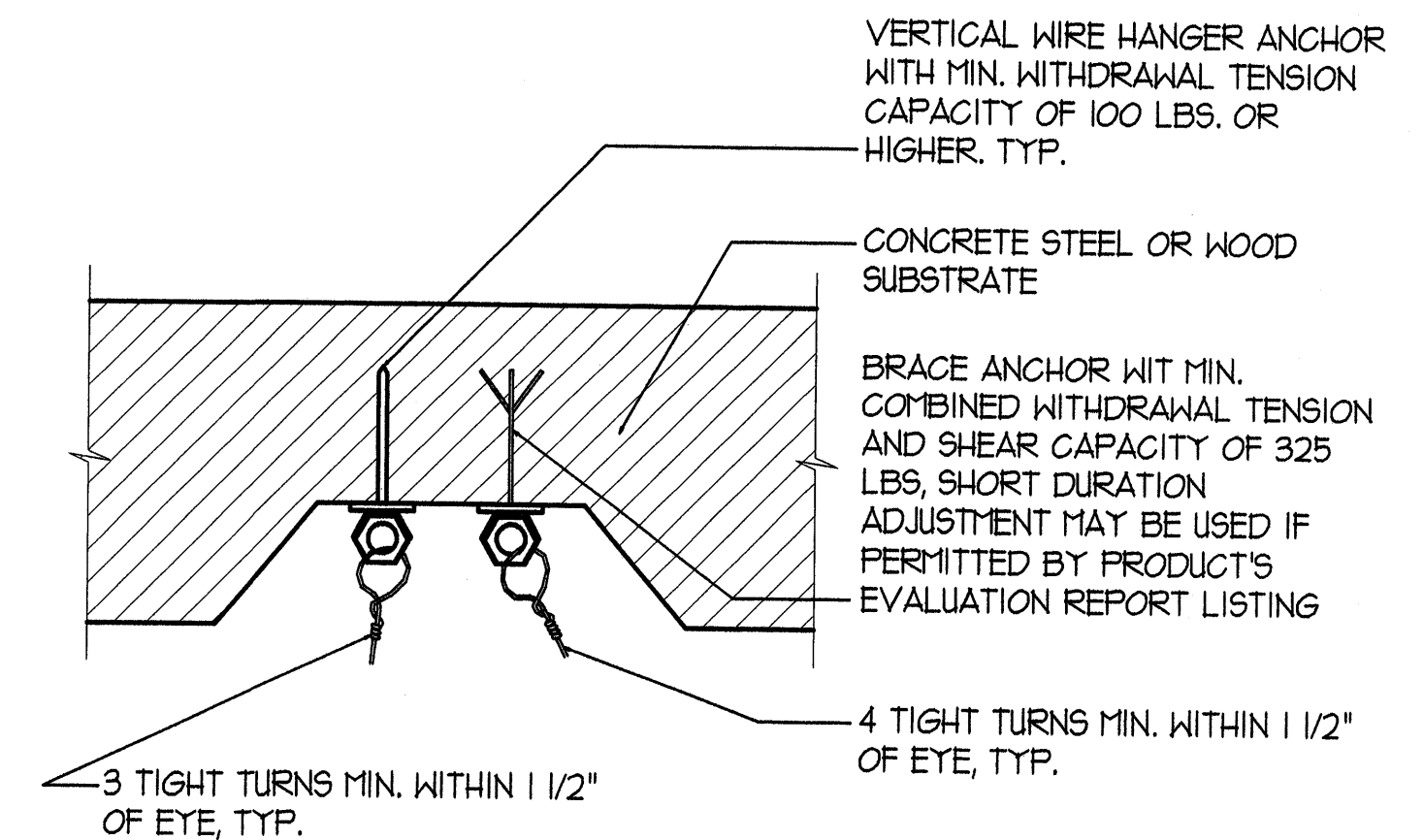
5 FIRE EXT. CABINET
SCALE: NOT TO SCALE



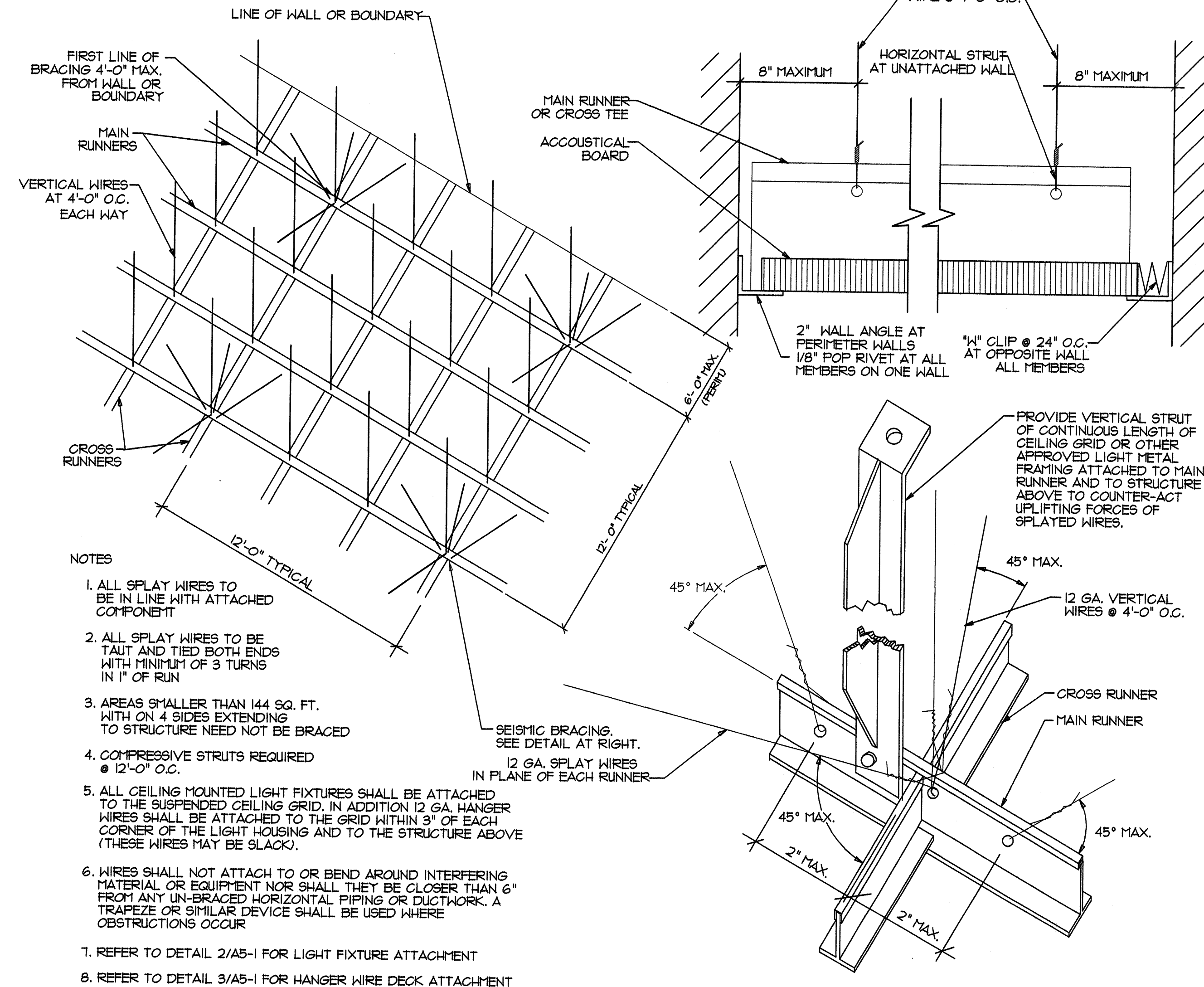
6 FOLDING PARTITION HEAD DETAIL
SCALE: NOT TO SCALE



2 LIGHTING OR MECH. FIXTURE
SCALE: N.T.S.

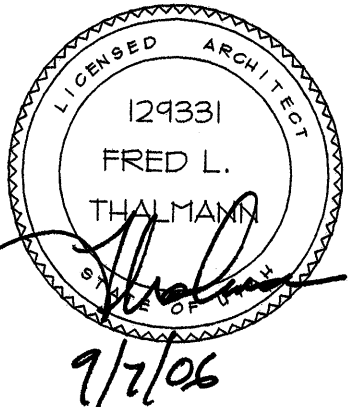


3 HANGER ATTACHMENT
SCALE: N.T.S.



1 CEILING SUSPENSION & SEISMIC BRACING
SCALE: N.T.S.

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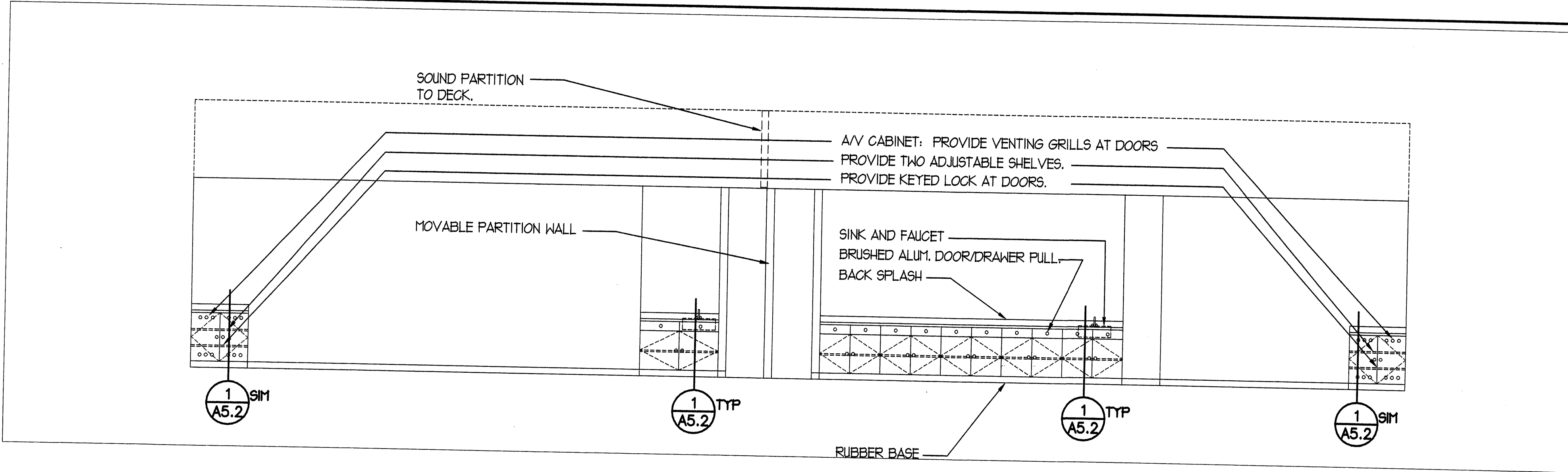
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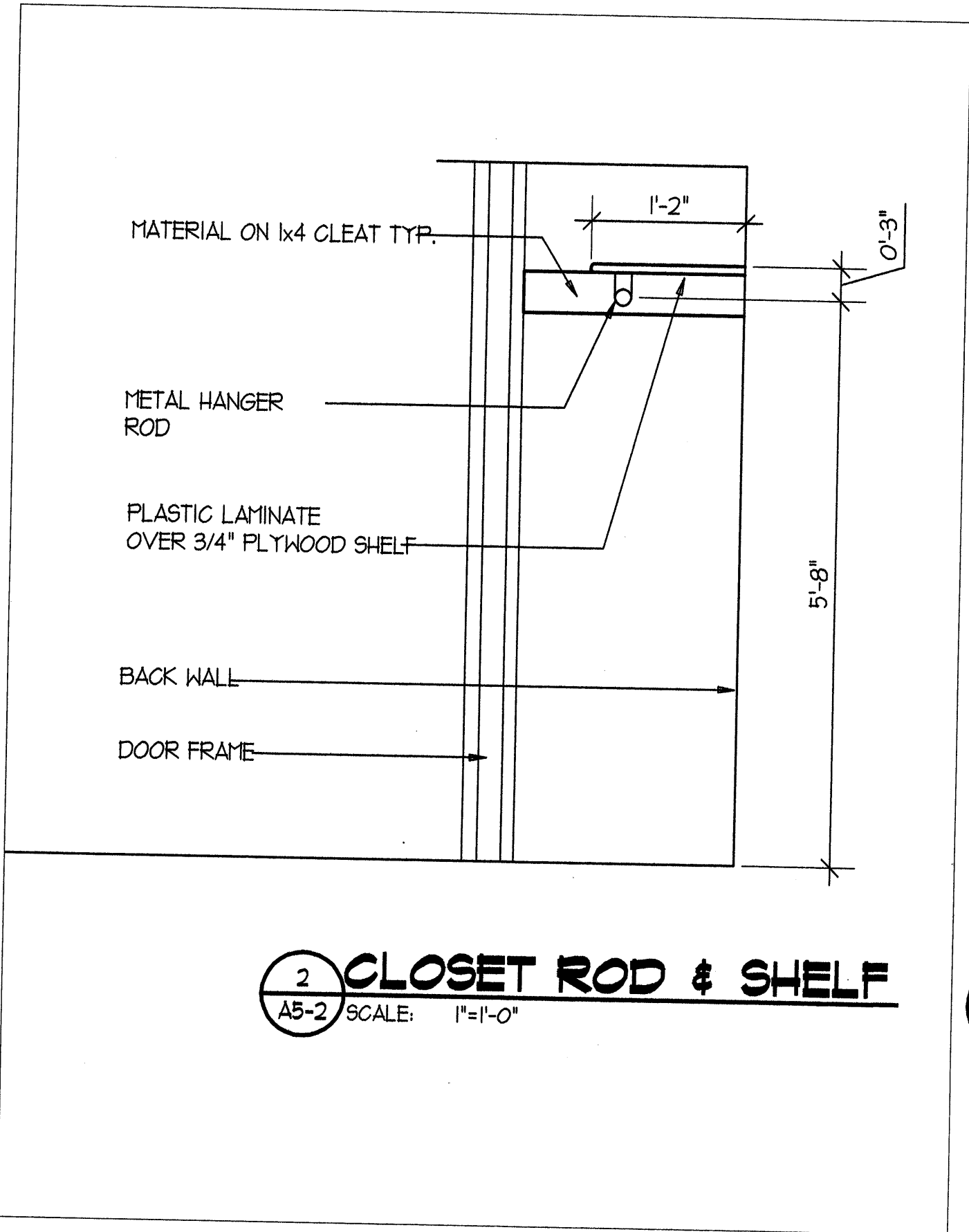
DETAILS

Drawing No.

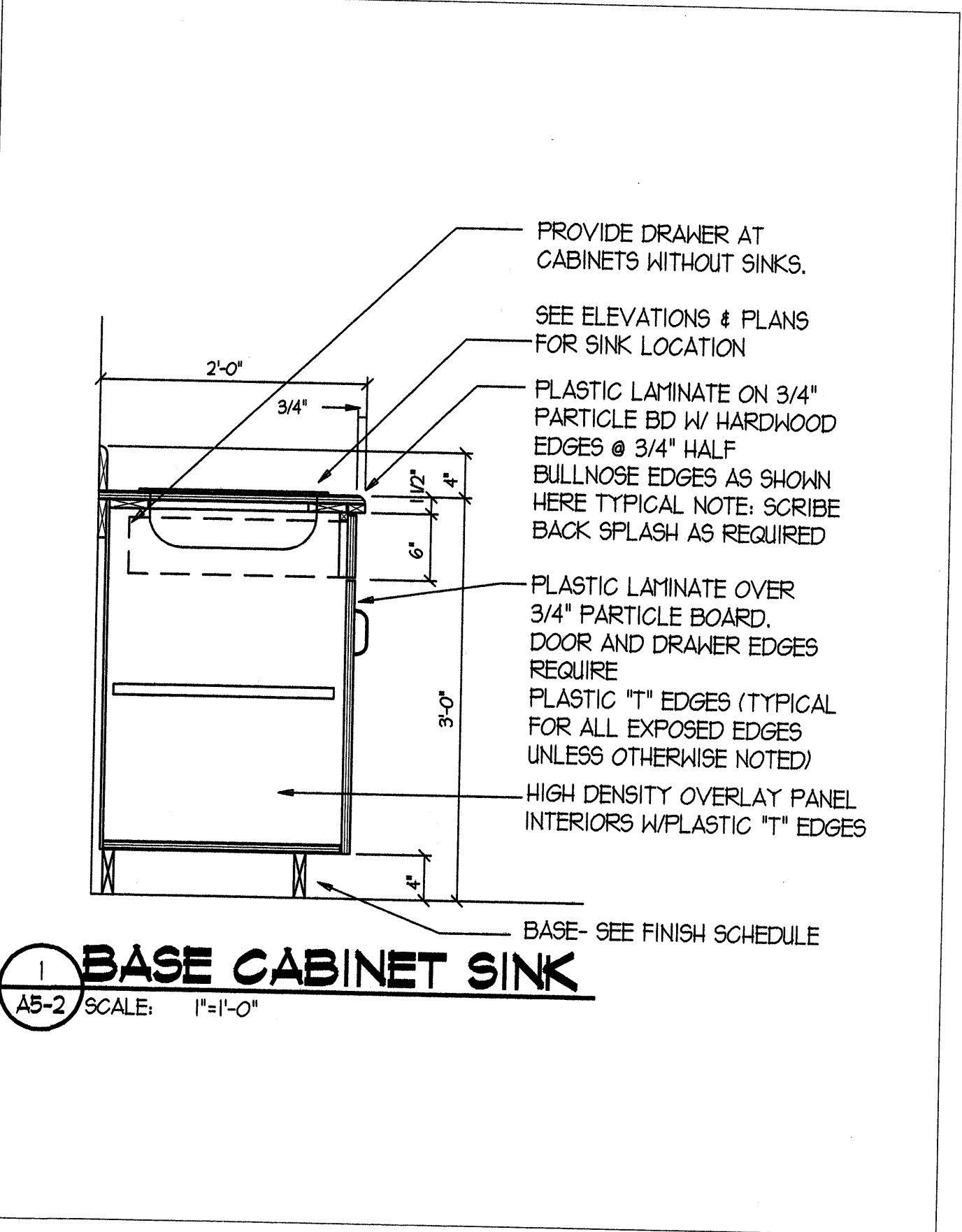
A5-1



A INTERIOR ELEVATION
SCALE: 1/4"=1'-0"



2 CLOSET ROD & SHELF
SCALE: 1"=1'-0"



1 BASE CABINET SINK
SCALE: 1"=1'-0"

Seal

129331
FRED L.
THALMANN
9/2/06

Revisions:
No. Date Description

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**DWS ADMINISTRATION BUILDING
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Drawing Description
**DETAILS
&
INTERIOR
ELEVATIONS**

Drawing No.
A5-2

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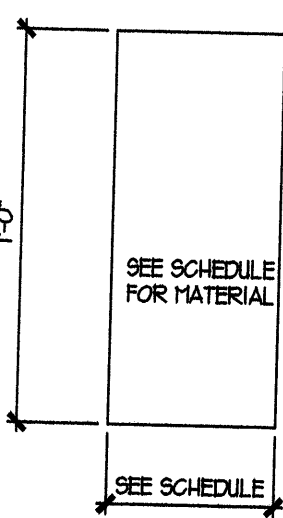
ABBREVIATIONS

PNTD. GYP. BD. = PAINTED GYPSUM BOARD
CONC. = CONCRETE
S.C. = SOLID CORE
V.C.T. = VINYL COMPOSITION TILE
DBL. BUMPERS = DOUBLE BUMPERS
PNTD. = PAINTED
CLG. = CEILING
PLYAD. = PLYWOOD
HOLL. MTL. = HOLLOW METAL
MANUF. = MANUFACTURER
ALUM. = ALUMINUM
N.I.C. = NOT IN CONTRACT
F.S.D. = FIRE & SMOKE DAMPER

[illegible]

COLOR SCHEDULE			
NOTE: COORDINATE ALL COLORS WITH OWNER			
Tag	Material	Manufacture	Color
(P1) Wall :		Ameritone / Devco:	COLOR BY ARCHITECT
(P2) H.M. Doors, Door frame & Exposed Steel Paint:		Ameritone / Devco:	COLOR: MATCH EXISTING
(RB-1) Rubber Base		Roppe:	COLOR: MATCH EXISTING
(VCT-1) Flooring 12" x 12":		Armstrong:	MATCH EXISTING STYLE AND COLOR.
CARPET:		STATE CONTRACT	STYLE, & COLOR BY ARCHITECT
(ATC-1) Acoustic Ceiling Tile:		USG:	COLOR: WHITE

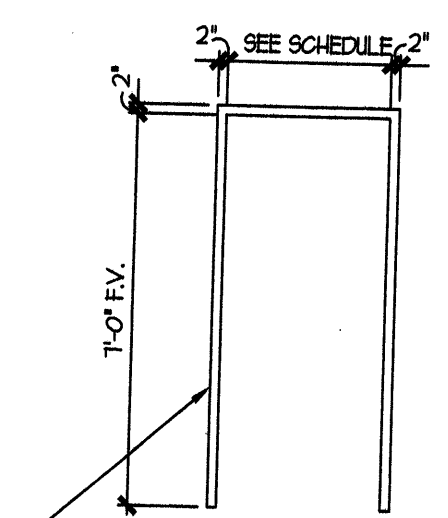
DOOR TYPES



The diagram shows a rectangular door frame. The height is labeled as 7'-0" on the left. The width is labeled as "SEE SCHEDULE" at the bottom. Inside the frame, the text "SEE SCHEDULE FOR MATERIAL" is written.

TYPE D-1

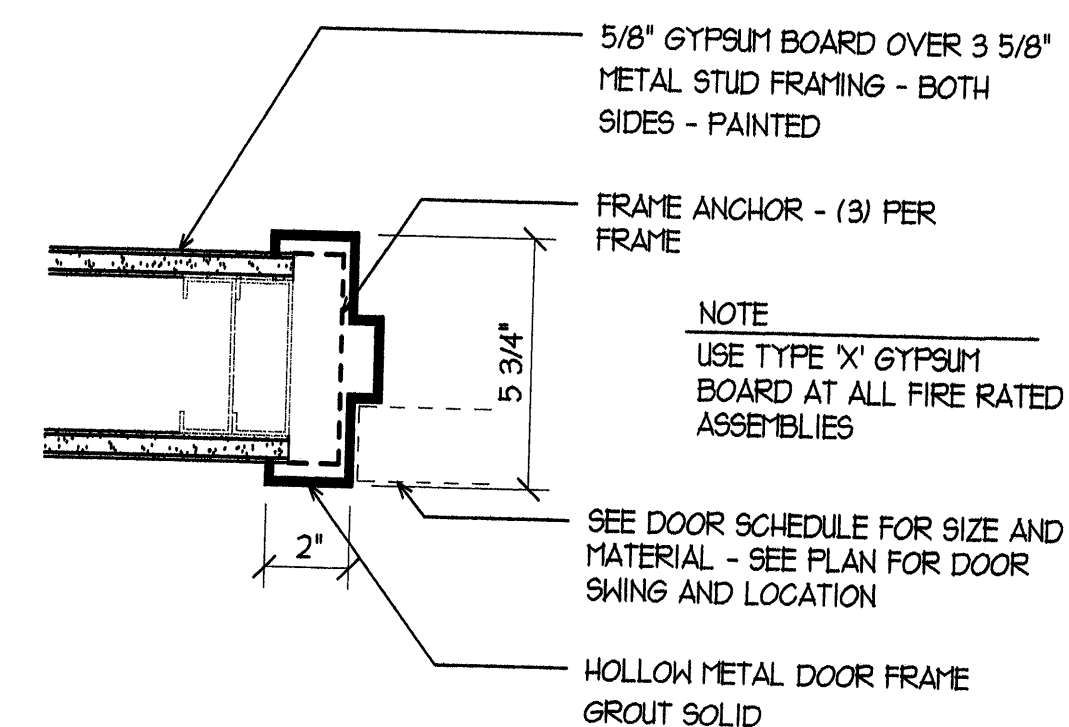
FRAME TYPES



The diagram shows a rectangular frame. The height is labeled as 7'-0" F.V. on the left. The width is labeled as 2'-0" SEE SCHEDULE-2" at the top. A diagonal line points to the frame with the text "HOL. MTL. FRAME PAINTED (P2)".

TYPE F-1

DOOR HARDWARE SCHEDULE			
MATCH EXISTING HARDWARE STYLE, FINISH AND KEYING. COORDINATE WITH DFCM.			
<u>HARDWARE GROUP 1 (20 min. rated)</u>			
1 1/2	PAIR	BUTTS	BB5000 4.5 X 4.5
1	EACH	CLOSER	P404I EDA
1	EACH	EXIT	98L-F X CYLINDER
1	EACH	SMOKE SEAL	2525
1	EACH	KICK PLATE	10" X 2" LDW
			10B BOMMER
			LCN
			26D VON DUPRIN
			NG
			NG
<u>HARDWARE GROUP 2 (PAIR OF DOORS 20 min. rated)</u>			
3	PAIR	BUTTS	BB5000 4.5 X 4.5
2	EACH	CLOSER	P404I EDA
2	EACH	EXIT	98L-F X CYLINDER
2	EACH	SMOKE SEAL	2525
2	EACH	KICK PLATE	10" X 2" LDW
2	EACH	AUTO FLUSH BOLTS	FB3IP (20 MIN)
			10B BOMMER
			LCN
			26D VON DUPRIN
			NG
			NG
			IVES
<u>HARDWARE GROUP 3 (PAIR OF DOORS)</u>			
3	PAIR	BUTTS	BB5000 4.5 X 4.5 NRP
1	EACH	LOCKSET	D70 PD RHO
1	EACH	DUMMY TRIM	
2	EACH	FLUSH BOLTS	1358-12"
2	EACH	STOP	302
			26D BOMMER
			26D SCHLAGE
			26D SCHLAGE
			26D QUALITY
			26D NG



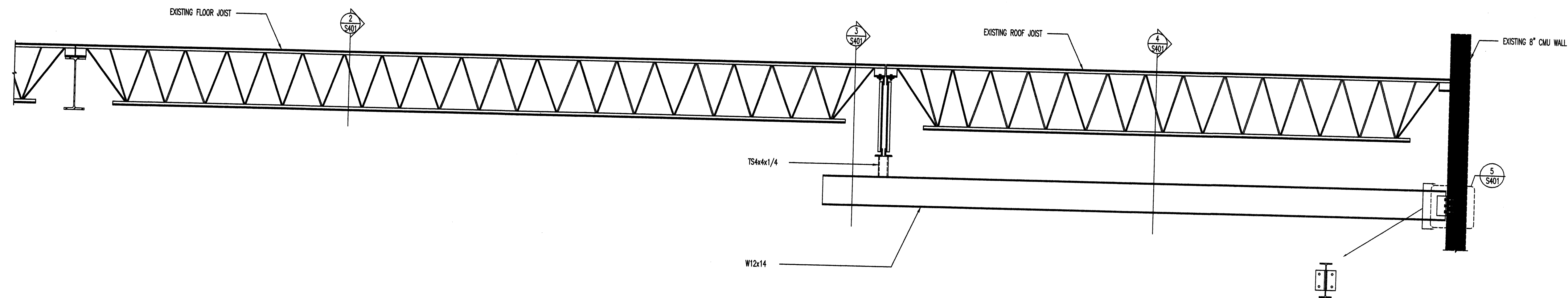
DOOR JAMB DETAIL

**DWS ADMINISTRATION BUILDING
FIRST FLOOR CONFERENCE ROOM REMODEL**

FOR THE STATE OF UTAH DFCM

**140 EAST 300 SOUTH
SALT LAKE CITY, UTAH 84111**

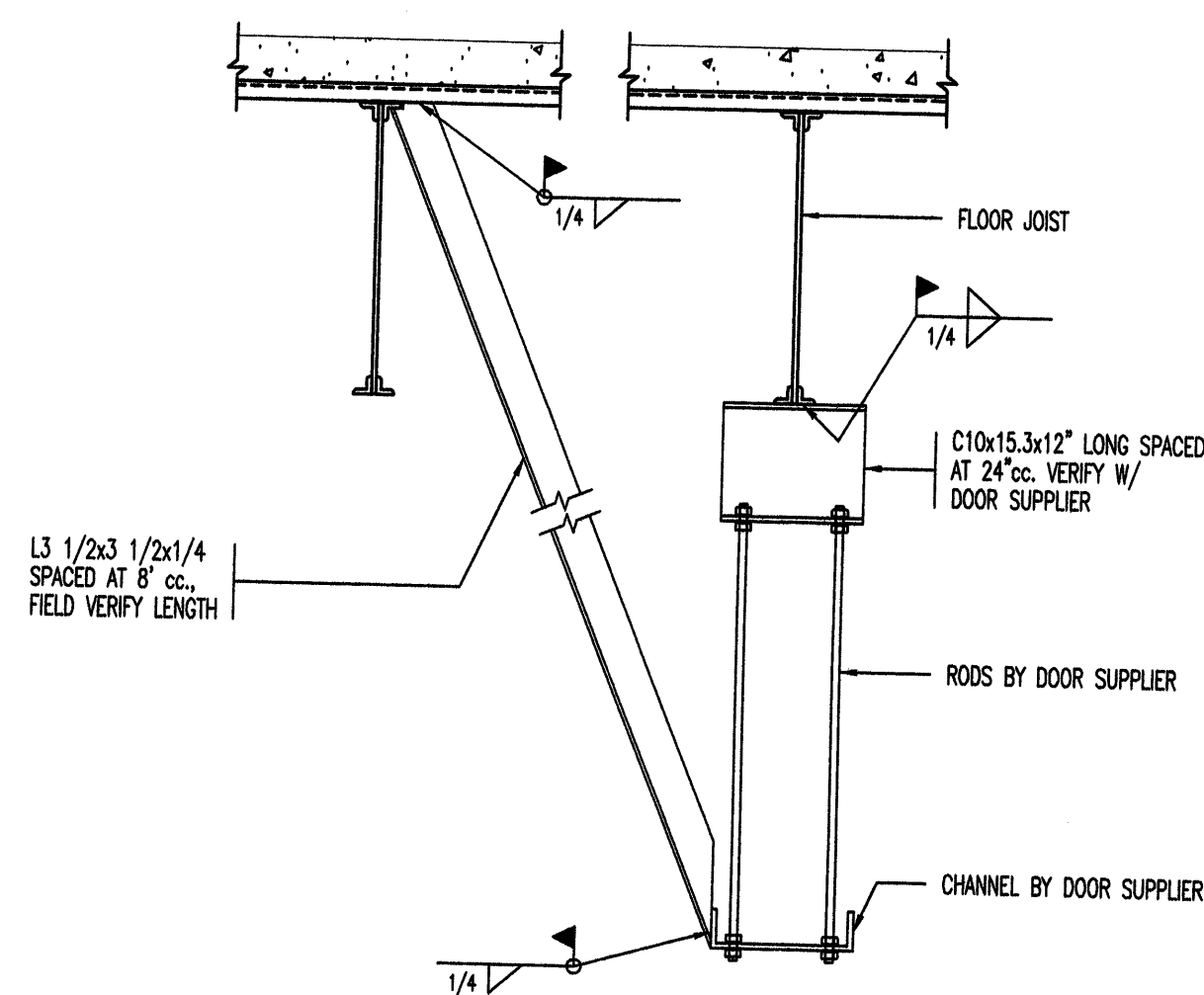
Date: 9/01/06
Drawn: ---
Checked: FLT
Drawing Description
FINISH AND DOOR SCHEDULES
Drawing No. A7-1



1 ELEVATION

262505401

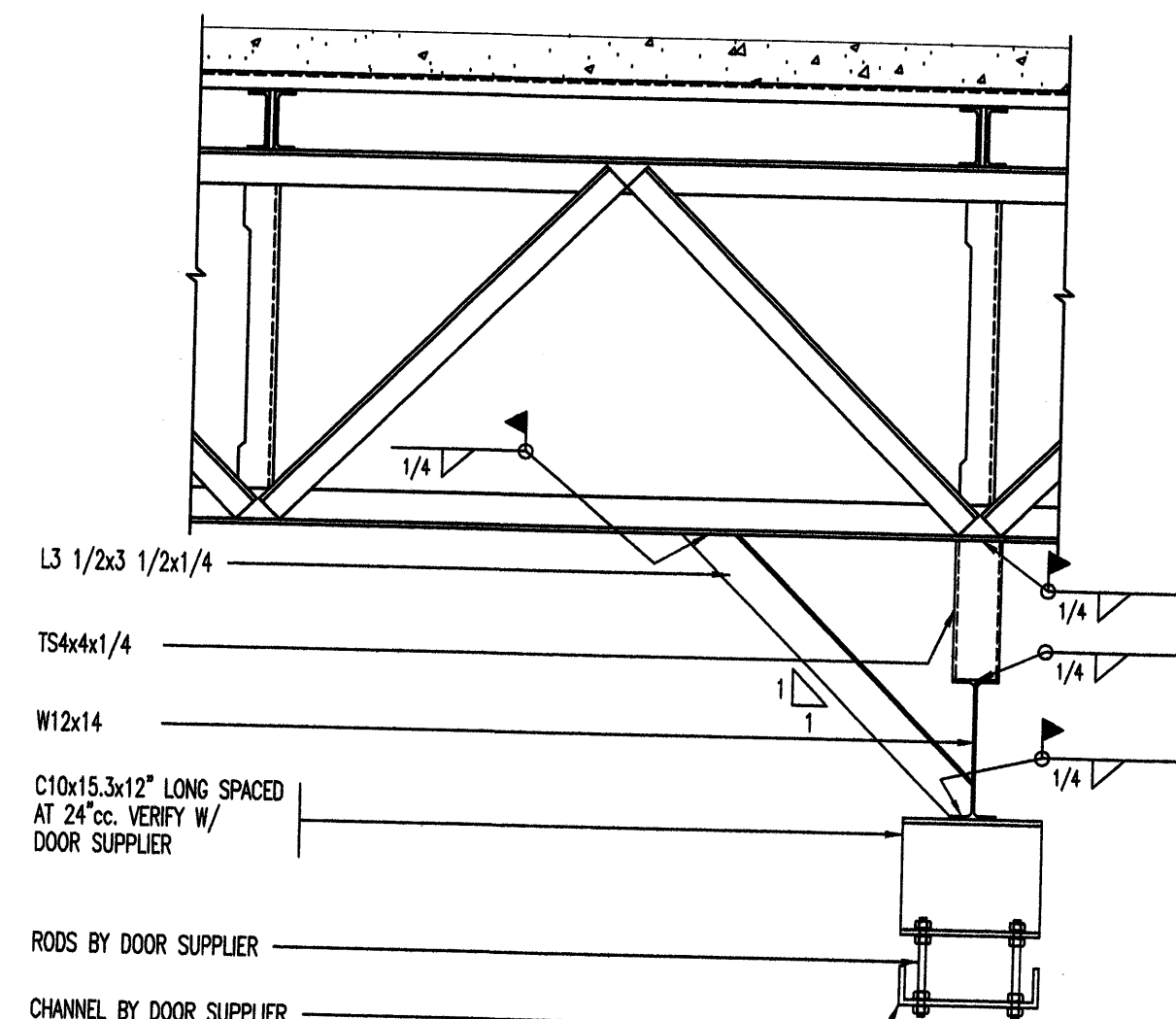
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2 DETAIL

262505401

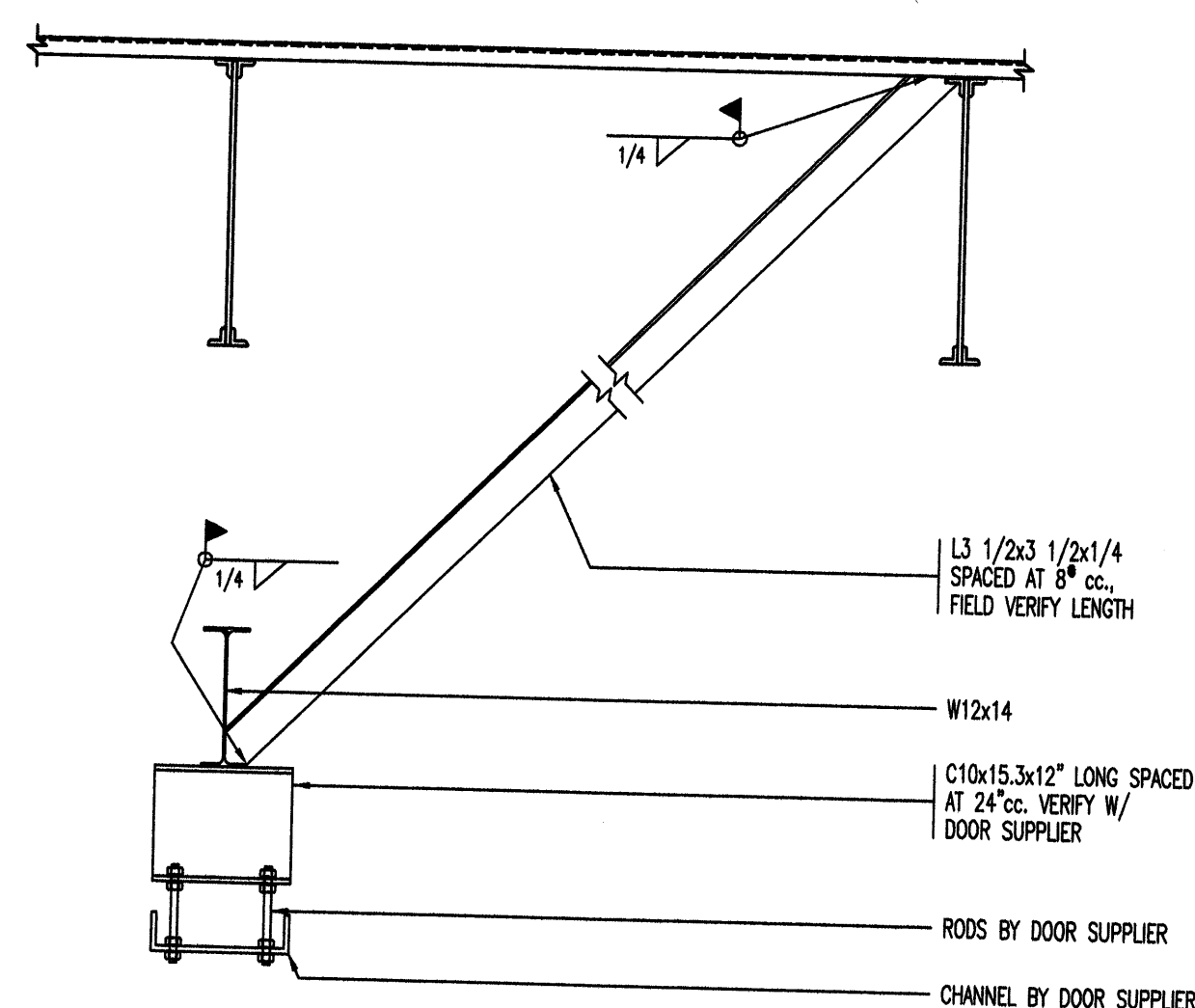
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3 DETAIL

262505401

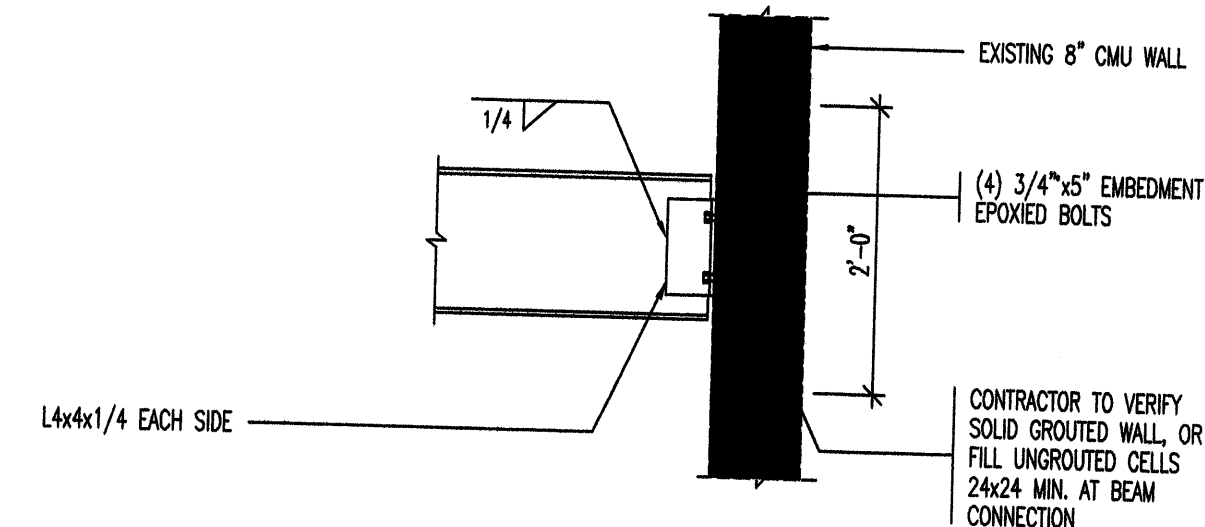
NO SCALE



4 DETAIL

262505401

NO SCALE



5 DETAIL

262505401

NO SCALE

DWS ADMINISTRATION BUILDING
FIRST FLOOR CONFERENCE ROOM REMODEL
FOR THE STATE OF UTAH DFCM
140 EAST 300 SOUTH
SALT LAKE CITY, UTAH 84111

Date: 9/01/06

Drawn: ---

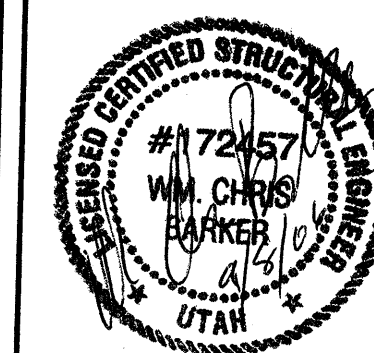
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PARTITION WALL RETROFIT
SECTION AND DETAILS

Drawing No.

S401

Seal



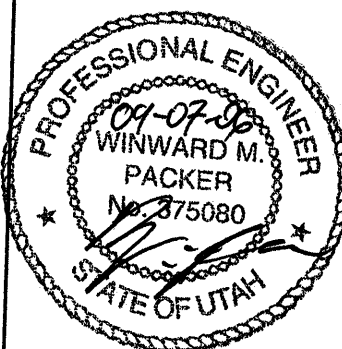
Revisions:
No. Date Description

MECHANICAL LEGEND									
SYMBOL	ABR.	DESCRIPTION	SYMBOL	ABR.	DESCRIPTION	SYMBOL	ABR.	DESCRIPTION	
GENERAL TERMINOLOGY			AIR SIDE CONT.			WET SIDE CONT			
		SECTION LETTER DESIGNATION			RETURN OR OUTSIDE AIR DUCT DOWN			AUTOMATIC AIR VENT	
		SECTION DRAWN ON THIS SHEET			SUPPLY DUCT DOWN			MANUAL AIR VENT	
		DETAIL NUMBER DESIGNATION CORRESPONDING WITH GRID LOCATION			EXHAUST DUCT DOWN			STRAINER	
		MECHANICAL EQUIPMENT DESIGNATION			ROUND DUCT UP			STRAINER W/ PLUGGED BLOW OFF	
		EQUIPMENT ITEM DESIGNATION			ROUND DUCT DOWN			DIRECTION OF FLOW	
		REGISTER, GRILLE OR DIFFUSER DESIGNATION WHERE BALANCING NOT REQUIRED			RAISE DUCT UP			PITCH DOWN	
		REVISION DESIGNATOR AND NUMBER			LOWER DUCT DOWN			ELBOW UP	
		KEY NOTE DESIGNATOR AND NUMBER			FLEXIBLE DUCT CONNECTION			ELBOW DOWN	
		POINT OF CONNECTION			PARALLEL BLADE DAMPER			TEE UP	
		POINT OF REMOVAL			OPPOSED BLADE DAMPER			TEE DOWN	
AFF		ABOVE FINISHED FLOOR			HUMIDIFIER			EXISTING PIPING TO BE REMOVED	
AP		ACCESS PANEL			AIRFLOW MEASURING STATION			EXISTING PIPING TO REMAIN	
EL		CENTER LINE ELEVATION			FILTER BANK			NEW PIPING	
INV. ELEV.		INVERT ELEVATION			COIL			PIPE CAP OR PLUG	
GC		GENERAL CONTRACTOR		AP	ACCESS PANEL			CONCENTRIC REDUCER	
MC		MECHANICAL CONTRACTOR			EXISTING EQUIPMENT TO BE REMOVED			ECCENTRIC REDUCER	
CC		CONTROL CONTRACTOR			EXISTING EQUIPMENT TO REMAIN			EXPANSION JOINT	
EC		ELECTRICAL CONTRACTOR			NEW EQUIPMENT			FLEXIBLE CONNECTION	
FPC		FIRE PROTECTION CONTRACTOR		MVD	MOTORIZED VOLUME DAMPER			ANCHOR POINT	
NIC		NOT IN CONTRACT		BD	BACKDRAFT DAMPER			CONDENSATE DRAIN	
NTS		NOT TO SCALE		FD	FIRE DAMPER			NATURAL GAS PIPING	
VCP		VITRIFIED CLAY PIPE		RD	RADIATION TYPE FIRE DAMPER			CHEMICAL FEED LINE	
C		COMMON		SD	SMOKE DAMPER			MAKE-UP WATER LINE	
NC		NORMALLY CLOSED		FS	FIRE & SMOKE DAMPER			CULINARY COLD WATER	
NO		NORMALLY OPEN		TSTAT	WALL MOUNTED THERMOSTAT			CULINARY HOT WATER	
AIR SIDE				SA	SUPPLY AIR			RECIRCULATED CULINARY HOT WATER	
		EXISTING AIR DUCT TO BE REMOVED		RA	RETURN AIR			EQUIPMENT DRAIN	
		EXISTING AIR DUCT TO REMAIN		EA	EXHAUST AIR			HEATING WATER SUPPLY	
		NEW AIR DUCT		OA	OUTSIDE AIR			HEATING WATER RETURN	
		RECT. TO RECT. AIR DUCT TAKE-OFF		MA	MIXED AIR			CHILLED WATER SUPPLY	
		RECT. TO RND. AIR DUCT TAKE-OFF		FA	FRESH AIR			CHILLED WATER RETURN	
		RND. TO RND. AIR DUCT TAKE-OFF		RF	RELIEF AIR			HIGH TEMPERATURE HEATING WATER SUPPLY	
		RECT. TAKE-OFF AT END OF MAIN	WET SIDE					HIGH TEMPERATURE HEATING WATER RETURN	
		BURIED OR UNDER FLOOR DUCT			THREADED OR SWEAT VALVE CONNECTION			LOW PRESSURE STEAM	
		FLEXIBLE AIR DUCT			FLANGED VALVE CONNECTION			LOW PRESSURE STEAM RETURN	
		LINED DUCT			BUTTERFLY VALVE			MEDIUM PRESSURE STEAM	
		VANED ELBOW			GATE VALVE			MEDIUM PRESSURE STEAM RETURN	
		RADIUS ELBOW			GLOBE VALVE - STRAIGHT PATTERN			HIGH PRESSURE STEAM	
		CONCENTRIC DUCT TRANSITION			GLOBE VALVE - ANGLE PATTERN			HIGH PRESSURE STEAM RETURN	
		ECCENTRIC DUCT TRANSITION			MOTORIZED 2-WAY CONTROL VALVE				
		FLEXIBLE DUCT CONNECTION			MOTORIZED 3-WAY CONTROL VALVE				
		VOLUME DAMPER			CHECK VALVE				
		SUPPLY AIR DIFFUSER		PRV	PRESSURE REDUCING VALVE				
		RETURN AIR, FRESH AIR, AND TRANSFER AIR		PRV	PRES REDUCING VALVE W/ CHECK				
		CEILING MOUNTED EXHAUST FAN OR EXHAUST GRILLE		CBV	CIRCUIT BALANCING VALVE				
		RETURN OR OUTSIDE AIR DUCT UP		BV	BALL VALVE				
		SUPPLY DUCT UP		PRV	PRESSURE RELIEF VALVE				
		EXHAUST AIR INTAKE UP		TRV	THERMAL RELIEF VALVE				
				SRV	SAFETY RELIEF VALVE				
					PLUG VALVE				
					NEEDLE VALVE				
				TDV	TRIPLE DUTY VALVE				

GENERAL NOTES:

- G-1** MECHANICAL INFORMATION IS NOT LIMITED TO THE MECHANICAL DRAWINGS. CONTRACTOR SHALL BE RESPONSIBLE FOR INFORMATION ON ALL OTHER CONSTRUCTION DOCUMENTS INCLUDING DRAWINGS BY OTHER DISCIPLINES AND SPECIFICATIONS.
- A - EACH DRAWING SHEET AND THE SPECIFICATIONS HAVE BEEN PREPARED TO SUPPLEMENT EACH OTHER AND THEY SHALL BE INTERPRETED AS AN INTEGRAL UNIT WITH ITEMS SHOWN AND NOTED ON ONE AND NOT THE OTHER BEING FURNISHED AND INSTALLED AS THOUGH SHOWN AND CALLED OUT IN ALL PLACES. ITEMS IN SPECIFICATIONS OR DRAWINGS LISTED WHICH ARE DIFFERING IN EFFICIENCY OR QUALITY SHALL BE HELD TO THE GREATEST OF: EFFICIENCY, QUALITY OR GOVERNING CODE.
- B - THE CONTRACTOR WILL BE HELD RESPONSIBLE FOR THE INSTALLATION OF THE SYSTEMS ACCORDING TO THE TRUE INTENT AND MEANING OF THE CONTRACT DOCUMENTS.
- C - THE CONTRACTOR SHALL INSTALL ALL EQUIPMENT WITH PROPER SERVICE ACCESS AND CLEARANCES ACCORDING TO MANUFACTURERS RECOMMENDATIONS. THE CONTRACTOR SHALL REVIEW SUPPLIERS BID PACKAGES FOR COMPLETENESS AND COMPLIANCE TO THE SPECIFICATIONS, SCHEDULES, AND DESIGN INTENT (ALL EQUIPMENT AND METHODS). THE CONTRACTOR SHALL REMOVE AND REINSTALL CORRECTLY AT HIS OWN EXPENSE ANY EQUIPMENT NOT IN COMPLIANCE.
- D - THE CONTRACTOR SHALL CONSULT MANUFACTURERS INSTALLATION INSTRUCTIONS FOR SIZES, METHODS, ACCESSORIES, AND CLEARANCES IN SPACE AVAILABLE PRIOR TO BIDDING PROJECT.
- E - ANYTHING NOT CLEAR OR IN CONFLICT WILL BE EXPLAINED BY MAKING APPLICATION TO THE ENGINEER IN WRITING.
- G-2** ANY AND ALL ALTERATIONS TO THE SYSTEM SHOWN SHALL BE THE RESPONSIBILITY OF THIS CONTRACTOR. ARCHITECT SHALL BE NOTIFIED IN WRITING PRIOR TO CHANGES.
- G-3** CONTRACTOR SHALL FIELD VERIFY ALL DIMENSIONS AND LOCATIONS.
- G-4** THE WORKING DRAWINGS ARE DIAGRAMMATIC. THEY DO NOT SHOW EVERY OFFSET, BEND, OR ELBOW NECESSARY FOR THE COMPLETE INSTALLATION IN THE SPACE PROVIDED. ALL LOCATIONS FOR MECHANICAL EQUIPMENT SHALL BE FIELD VERIFIED AND COORDINATED WITH ALL DRAWINGS. THE CONTRACTOR SHALL PROVIDE OR COORDINATE WITH THE GENERAL CONTRACTOR PROVISIONS FOR BLOCKOUTS OR CORE DRILLS THROUGH STRUCTURE.
- G-5** THE INSTRUCTION TO "PROVIDE" ALSO INCLUDES INSTALLATION.
- G-6** MECHANICAL CONTRACTOR SHALL PROVIDE AND INSTALL SMOKE AND FIRE DAMPERS AS REQUIRED BY LOCAL CODES AND AUTHORITIES.
- G-7** SHEET METAL DUCT SIZES SHOWN ON DRAWINGS ARE FREE AREA DIMENSIONS.
- G-8** PROVIDE AND INSTALL BALANCING DAMPERS IN ALL SUPPLY AND EXHAUST AIR BRANCH DUCTS. BALANCE TO CFM SHOWN ON PLAN.
- G-9** SEE ARCHITECTURAL REFLECTED CEILING PLAN FOR EXACT LOCATION OF DIFFUSERS AND GRILLES.
- G-10** PROVIDE TURNING VANES IN ALL ELBOWS OF RECTANGULAR DUCT.
- G-11** THE CONTRACTOR SHALL ASSUME ALL RESPONSIBILITY IN HANDLING AND DISPOSING OF REFRIGERANTS, OILS, ETC. ALL SUCH MATERIALS SHALL BE HANDLED, DISPOSED, AND USED IN ACCORDANCE WITH ALL LOCAL, STATE, AND FEDERAL LAWS.
- G-12** THE MECHANICAL CONTRACTOR SHALL VERIFY MOTOR VOLTAGES WITH THE ELECTRICAL DRAWING BEFORE ORDERING MOTORIZED EQUIPMENT AND CONTROLS.
- G-13** C.F.M. LISTED IS ACTUAL AIR.
- G-14** SUPPLIERS SHALL REVIEW ALL DRAWINGS AND THE SPECIFICATIONS PRIOR TO SUBMITTING PRICES TO THE CONTRACTOR. ALL QUESTIONS AND DISCREPANCIES SHALL BE BROUGHT TO THE ENGINEERS ATTENTION PRIOR TO BIDDING.
- G-15** CONTRACTOR SHALL THOROUGHLY REVIEW AND SIGN SUBMITTALS FOR COMPLETENESS AND COMPLIANCE TO THE SPECIFICATIONS PRIOR TO ENGINEERS REVIEW. SUPPLIERS SHALL HIGHLIGHT OR MARK ALL INFORMATION REQUIRED TO SHOW COMPLIANCE TO THE SPECIFICATIONS. ALL REQUESTED EXCEPTIONS TO THE SPECIFICATIONS, OR SCHEDULES SHALL BE CLEARLY NOTED AND EXPLAINED. SUBMITTAL REVIEW AND ACCEPTANCE IS FOR DESIGN CONCEPT ONLY, AND DOES NOT AT ANY TIME RELIEVE THE CONTRACTOR OF RESPONSIBILITY TO MEET SPECIFICATIONS, CAPACITIES, OR DESIGN INTENT.
- G-16** ALL MECHANICAL SHALL BE INSTALLED AND CONFORM TO THE 2003 EDITION OF THE IMC WITH UTAH ANNOTATIONS AND LOCAL AUTHORITY REQUIREMENTS.
- G-17** THIS CONTRACTOR SHALL BE RESPONSIBLE FOR THE DRAINING DOWN AND RE-FILLING OF ALL SYSTEMS NECESSARY TO COMPLETE THE WORK OUTLINED BY THIS PROJECT. THIS INCLUDES PROVIDING THE REQUIRED CHEMICAL TREATMENT WHEN RE-FILLING THE SYSTEM.

Seal

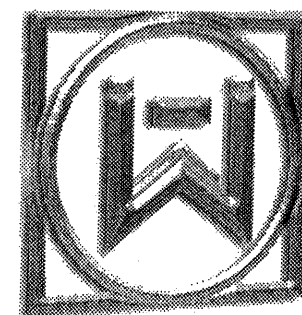


Revisions:
No. Date Description

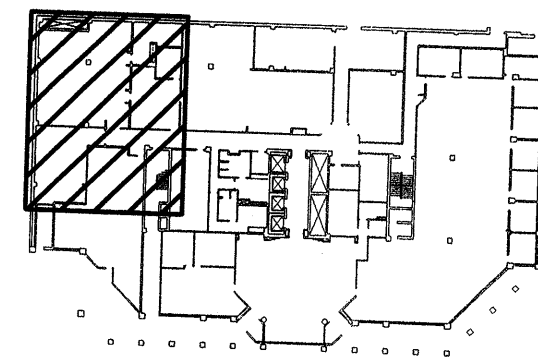


6228 BRIGHAM FORK CIRCLE
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DWS ADMINISTRATION BUILDING
FIRST FLOOR CONFERENCE ROOM REMODEL
FOR THE STATE OF UTAH DFCM
140 EAST 300 SOUTH
SALT LAKE CITY, UTAH 84111



WHW
ENGINEERING INC.
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KEY PLAN

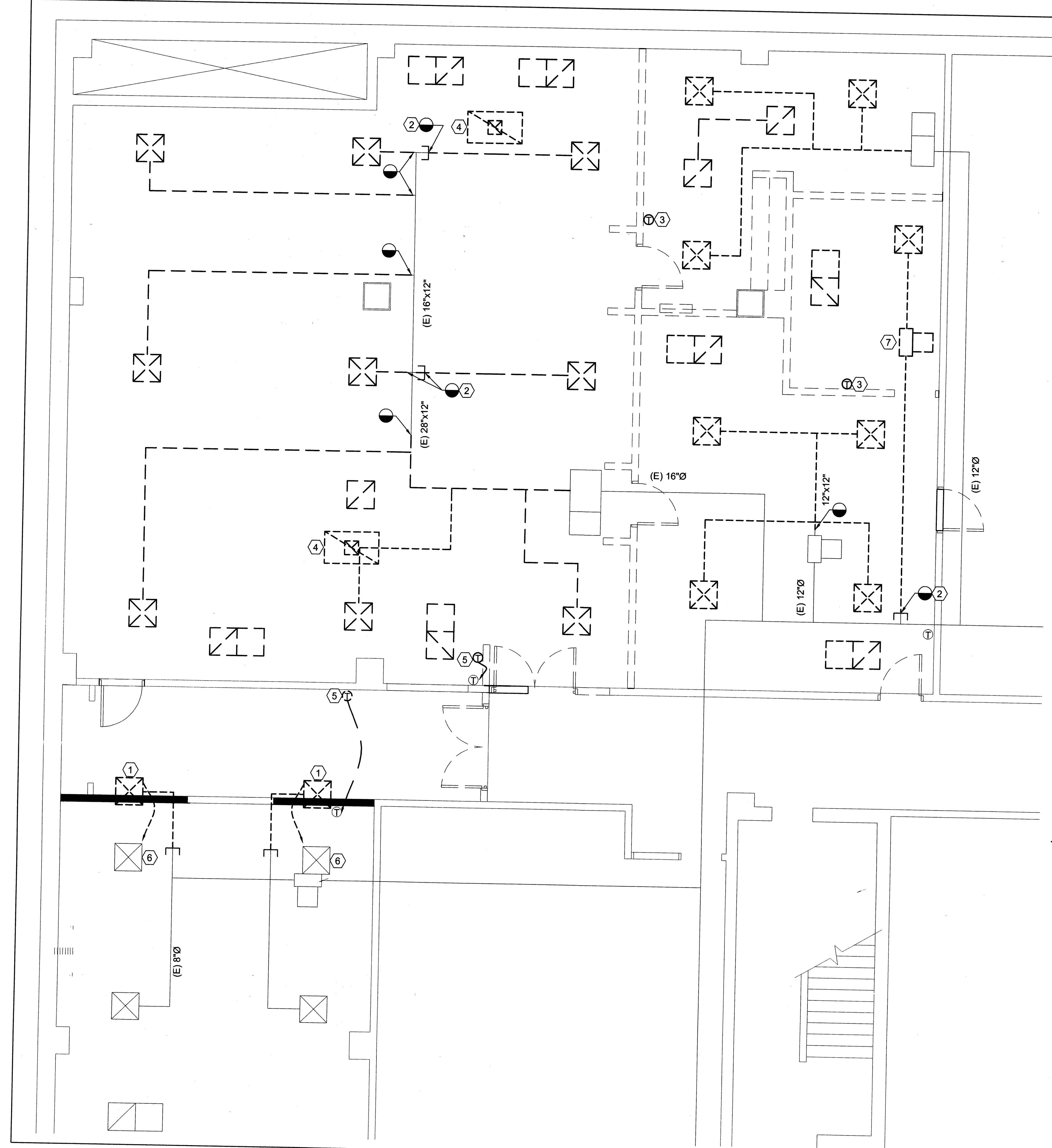
MECHANICAL
GENERAL
NOTES AND LEGENDS

M001

Date: 09/01/06

Drawn: PC

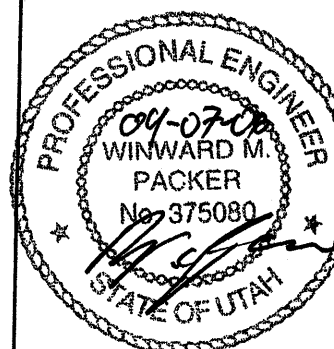
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SHEET NOTES:

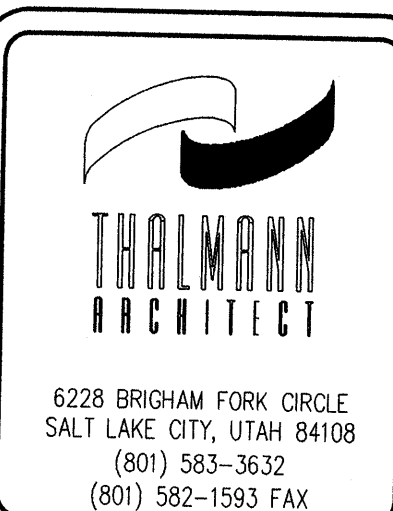
- ① (E) DIFFUSER TO BE REUSED IN ALTERNATE LOCATION
- ② CAP EXISTING DUCT
- ③ REMOVE EXISTING THERMOSTAT.
- ④ EXISTING EXHAUST HOOD TO BE REMOVED. REMOVE EXHAUST DUCTWORK BACK TO UNDERSIDE OF ROOF DECK. ROOF MOUNTED EXHAUST FAN TO REMAIN, ABANDONED IN PLACE.
- ⑤ THERMOSTAT TO BE RELOCATED AS SHOWN ON SHEET ME101.
- ⑥ DIFFUSERS TO BE RELOCATED AS SHOWN ON SHEET ME101.
- ⑦ REMOVE EXISTING FAN POWERED BOX, CONTROLS, AND CONTROLLER. SALVAGE TO OWNER FOR REUSE IN OTHER ARE OF THE BUILDING CAP PIPING IN PLACE SERVING THIS UNIT.

Seal



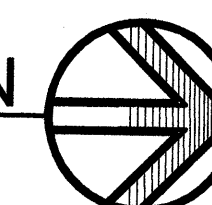
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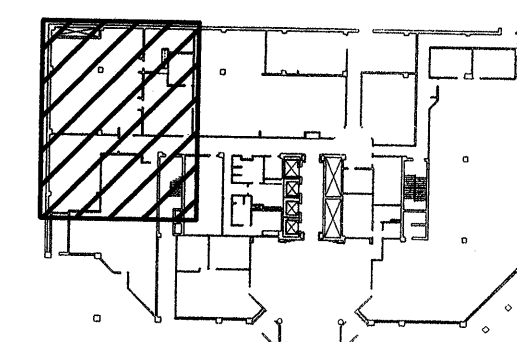


MECHANICAL DEMOLITION PLAN

SCALE: 1/4" = 1'-0"



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KEY PLAN

DWS ADMINISTRATION BUILDING
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FOR THE STATE OF UTAH DFCM
140 EAST 300 SOUTH
SALT LAKE CITY, UTAH 84111

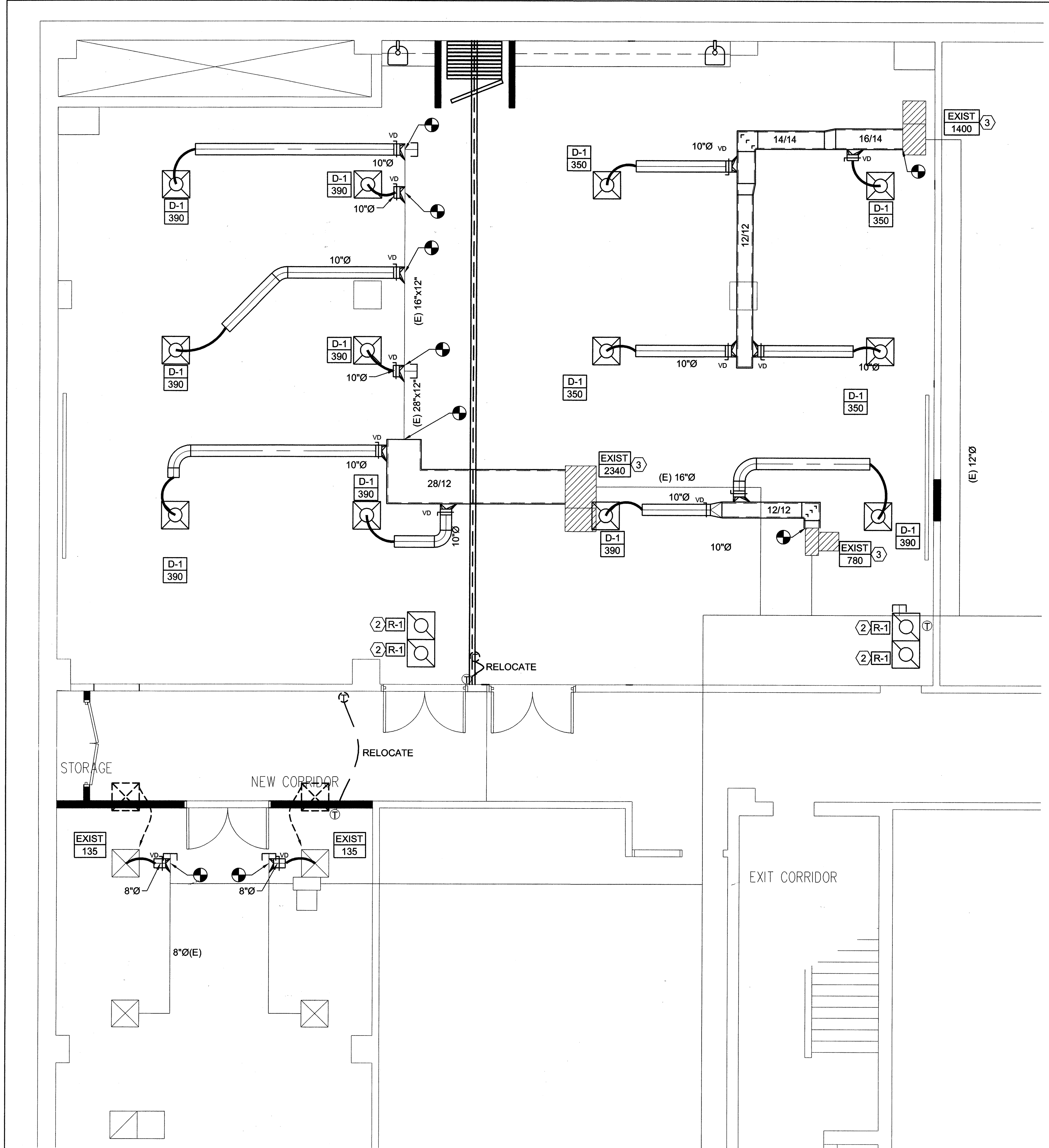
Date: 09/01/06

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Checked: WP

MECHANICAL
DEMOLITION PLAN

MD101



- SHEET NOTES:**
- 1 TIE EXISTING THERMOSTAT INTO EXISTING TO FAN POWERED BOXES SERVING THE SPACE.
 - 2 PROVIDE SOUND BOOT ON ALL RETURN GRILLES. SEE DETAIL.
 - 3 EXISTING FAN POWERED BOX.

Seal

PROFESSIONAL ENGINEER
07-07-06
WINWARD M. PACKER
No. 375080
STATE OF UTAH

Revisions:
No. Date Description

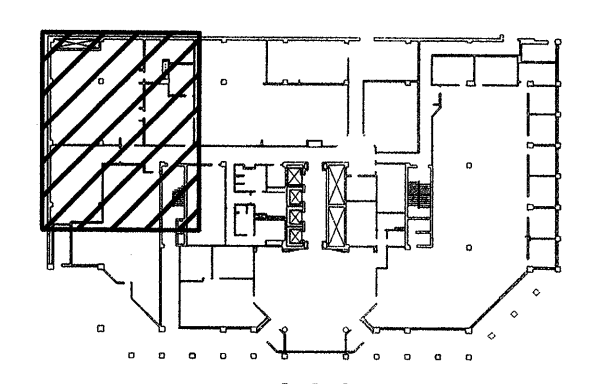
THALMANN
ARCHITECT

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DWS ADMINISTRATION BUILDING
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MECHANICAL NEW PLAN
SCALE: 1/4" = 1'-0"

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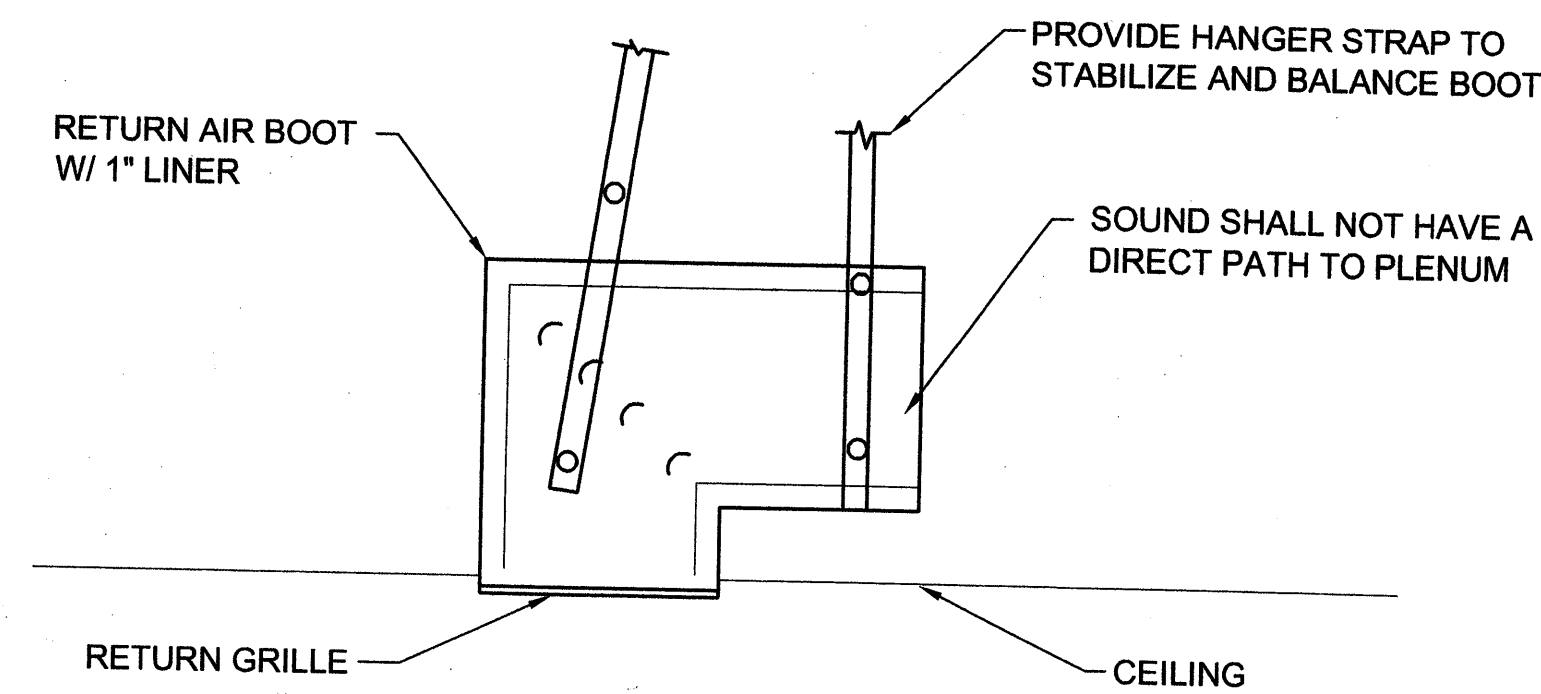


KEY PLAN

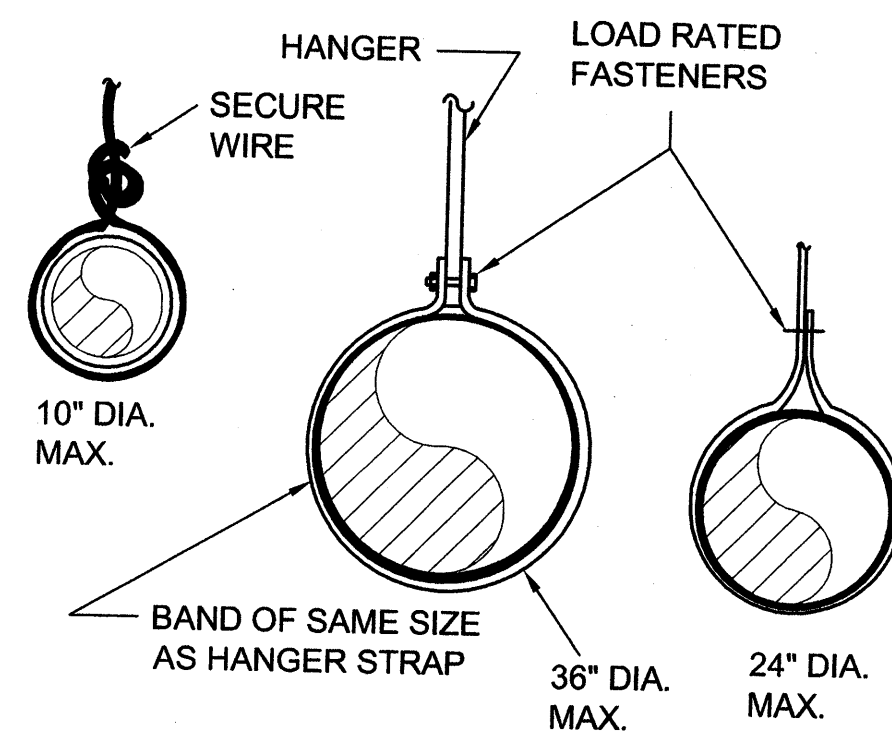
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MECHANICAL PLAN

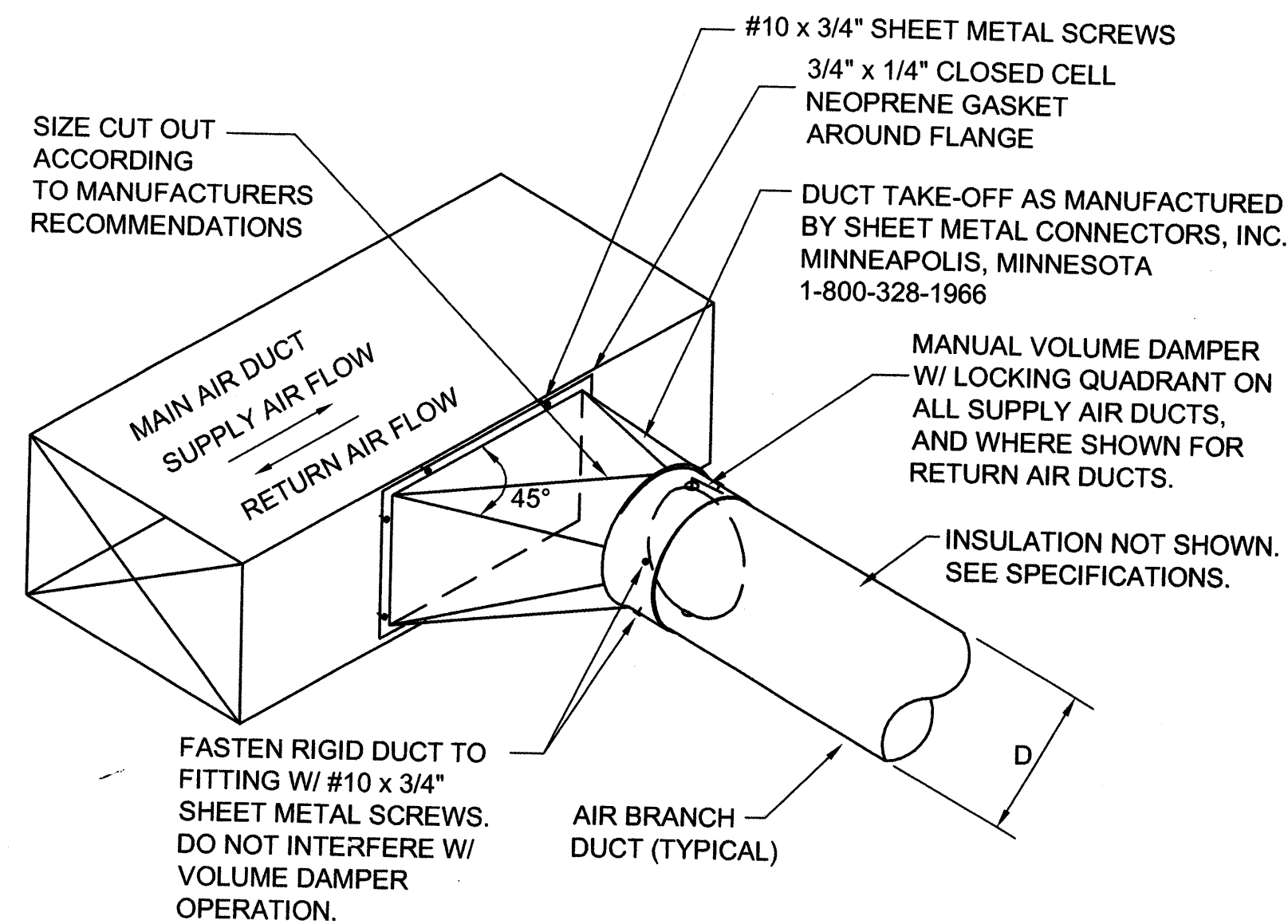
ME101



C1 RETURN AIR BOOT DETAIL
SCALE: NONE

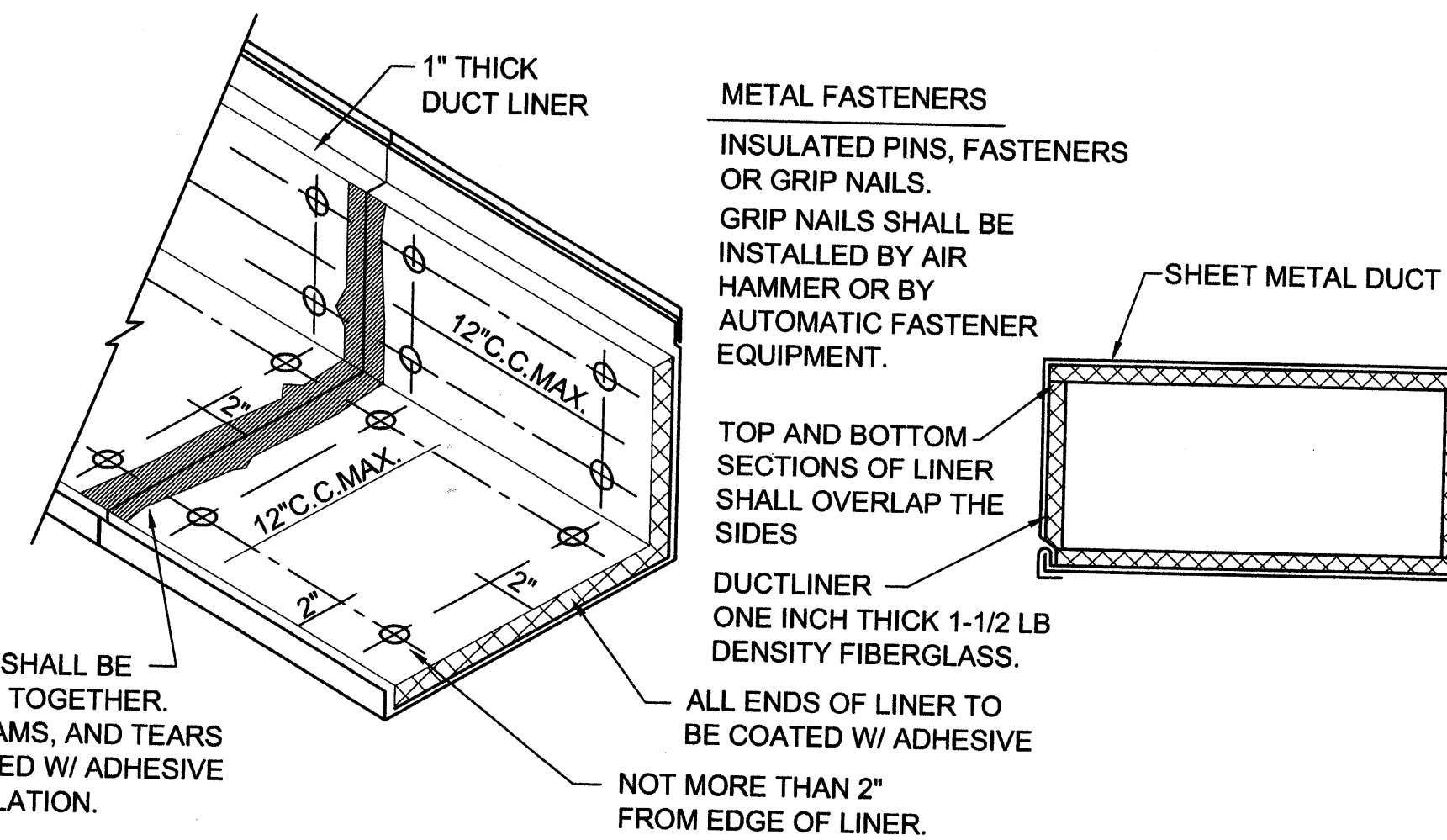


B1 DUCT SUPPORTS
SCALE: NONE



A1 RECTANGULAR-TO-ROUND DUCT CONNECTION DETAIL
SCALE: NONE

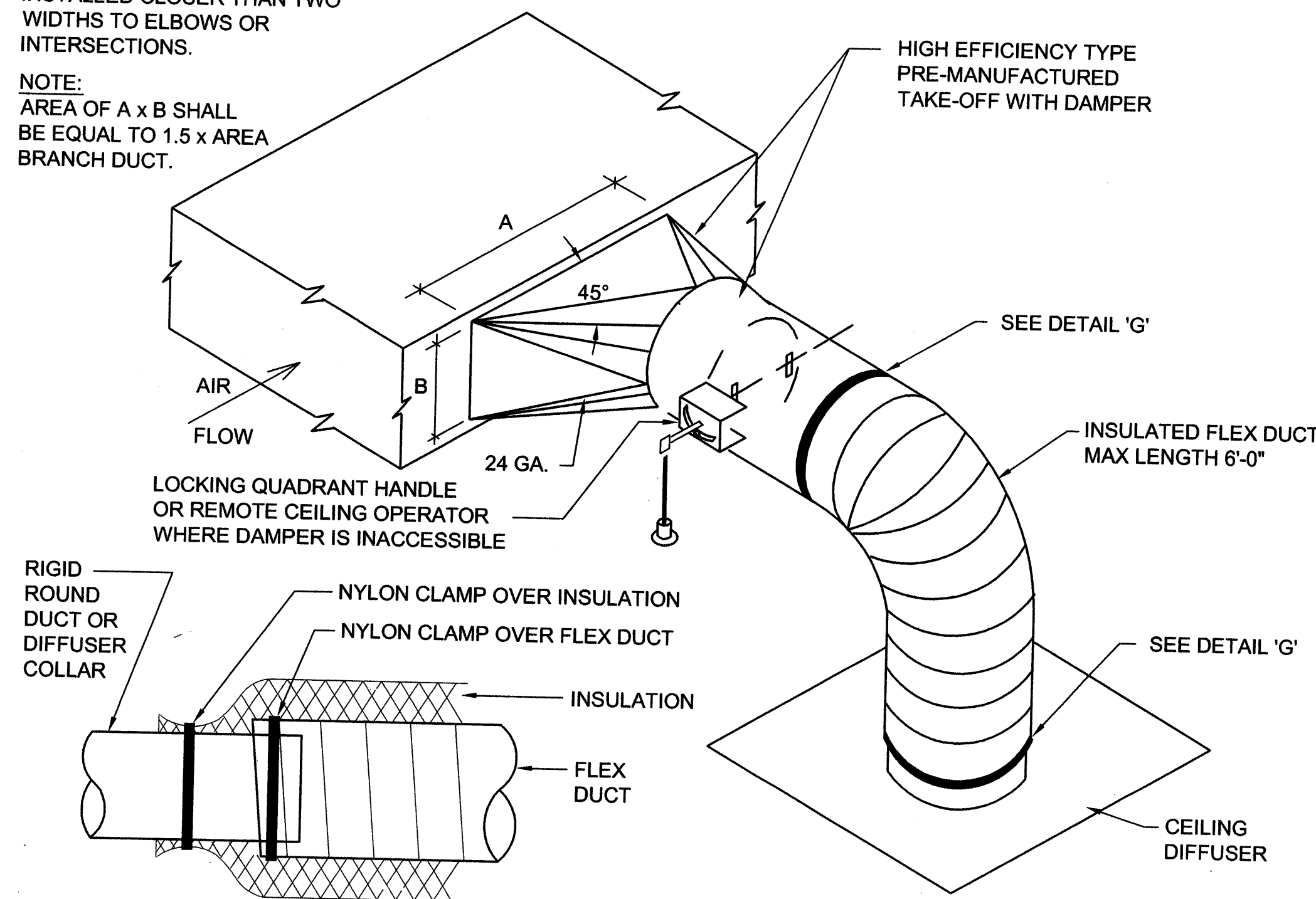
ENDS OF LINER SHALL BE BUTTED FIRMLY TOGETHER. ALL JOINTS, SEAMS, AND TEARS SHALL BE COATED W/ ADHESIVE DURING INSTALLATION.



C3 DUCT LINER DETAIL
SCALE: NONE

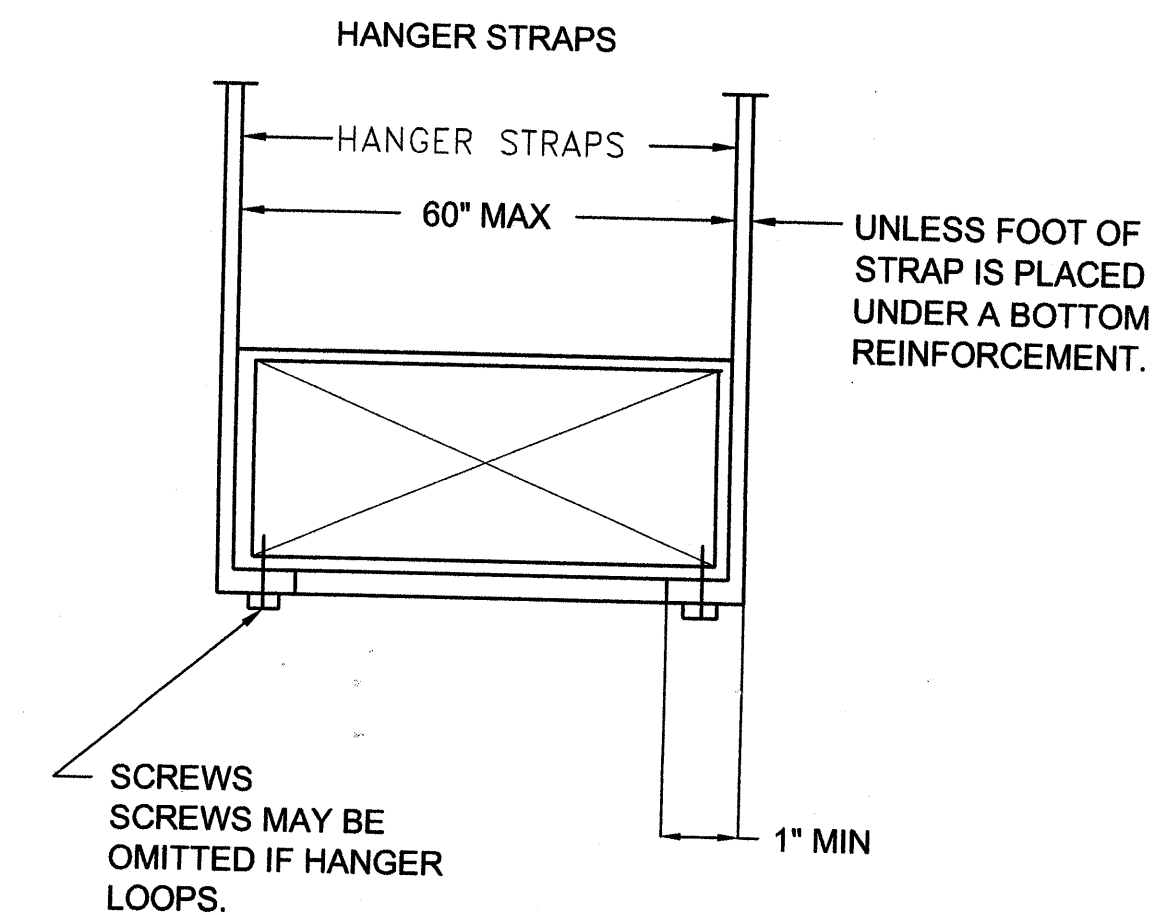
NOTE: TAKE-OFFS SHOULD NOT BE INSTALLED CLOSER THAN TWO WIDTHS TO ELBOWS OR INTERSECTIONS.

NOTE: AREA OF A x B SHALL BE EQUAL TO 1.5 x AREA BRANCH DUCT.



G DETAIL
SCALE: NONE

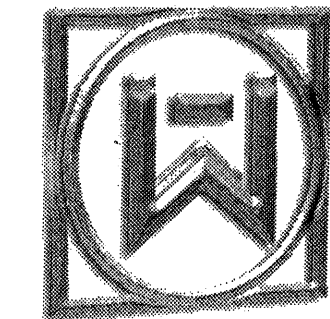
A3 SQUARE-TO-ROUND TAKE-OFF DETAIL
SCALE: NONE



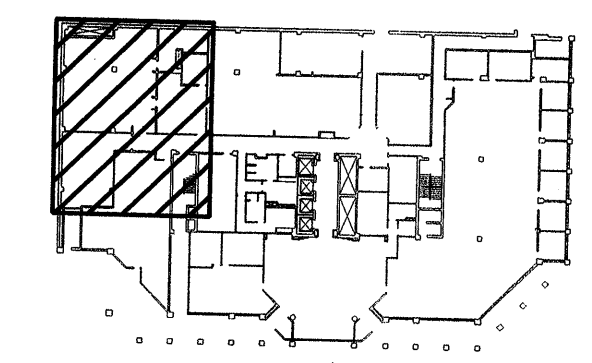
C5 DUCT SUPPORTS
SCALE: NONE

DUCT DIAMETER IN INCHES	MAXIMUM 2" W.G. STATIC POSITIVE		MAXIMUM 2" W.G. STATIC NEGATIVE	
	SPIRAL SEAM GAUGE	LONGITUDINAL SEAM GAUGE	SPIRAL SEAM GAUGE	LONGITUDINAL SEAM GAUGE
3 thru 8	28	28	28	24
9 thru 14	28	26	26	24
15 thru 26	26	24	24	22
27 thru 36	24	22	22	20
37 thru 50	22	20	20	18

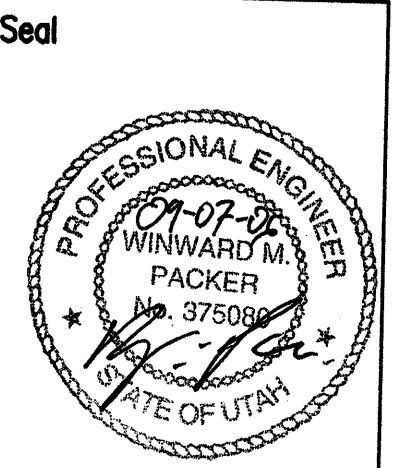
B5 LOW PRESSURE ROUND DUCT CONSTRUCTION DETAIL
SCALE: NONE



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KEY PLAN



Revisions:
No. Date Description

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DWS ADMINISTRATION BUILDING
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140 EAST 300 SOUTH
SALT LAKE CITY, UTAH 84111

Date: 09/01/06
Drawn: PC
Checked: WP


MECHANICAL DETAILS

ME501


REGISTER, LOUVER & GRILLE SCHEDULE							
SYMBOL	TYPE	SERVICE	MAX CFM	NOMINAL SIZE	THROAT SIZE	CEILING TYPE	SCHEDULE NOTES
R-1	CEILING	RETURN	1200	22/22	22/22	LAY-IN	1,2,3,4
REGISTER, LOUVER AND DIFFUSER SCHEDULE NOTES:							
1. MAXIMUM NC = 25 @ MAXIMUM CFM NOTED.							
2. SHALL BE PRICE 535 OR EQUAL BY TITUS, KRUEGER, NAILOR, OR CARNES							
3. FINISH SHALL BE OFF-WHITE BAKED ENAMEL.							
4. PROVIDE SOUND BOOT							

DIFFUSER SCHEDULE								
SYMBOL	TYPE	MAX CFM	FACE SIZE	NCK SIZE	CEILING TYPE	BLOW	PATTERN	SCHEDULE NOTES
D-1 CFM	CEILING	390	12X12	10"Ø	LAY-IN	4-WAY		1,2,3,4
1. PROVIDE LAY-IN CEILING AND BORDER / MODULE AS REQUIRED. SEE ARCHITECTURAL CEILING PLANS.								
2. MAXIMUM NC 25 AT CFM LISTED.								
3. TRANSITION AS REQUIRED TO DUCT WORK SHOWN ON PLAN.								
4. PRICE SMD DIFFUSER OR EQUAL BY TITUS, KRUEGER, NAILOR, OR CARNES.								

Seal




Revisions:
No. Date Description



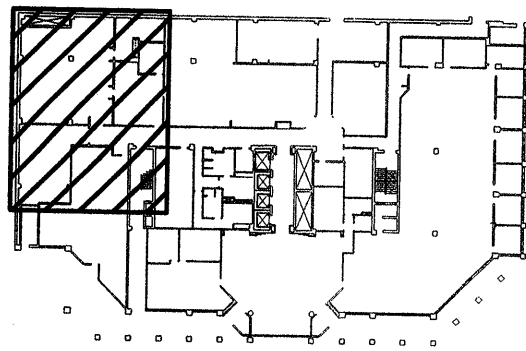
THALMANN
ARCHITECT

6228 BRIGHAM FORK CIRCLE
SALT LAKE CITY, UTAH 84108
(801) 583-3632
(801) 582-1593 FAX

DWS ADMINISTRATION BUILDING
FIRST FLOOR CONFERENCE ROOM REMODEL
FOR THE STATE OF UTAH DFCM
140 EAST 300 SOUTH
SALT LAKE CITY, UTAH 84111



WHW
ENGINEERING INC.
PROFESSIONAL MECHANICAL ENGINEERING
1354 East 3300 South Suite 200
SALT LAKE CITY, UTAH 84106
(801)466-4021, FAX 466-6536
EMAIL: excellence@whw-engineering.com



KEY PLAN

Date: 09/01/06

Drawn: PC

Checked: WP

MECHANICAL
SCHEDULES

ME601

PLUMBING LEGEND			
MEANING	SYMBOL OR ABBREVIATION	MEANING	SYMBOL OR ABBREVIATION
HOT WATER LINE	-----	WALL CLEANOUT	WCO
COLD WATER LINE	-----	CLEANOUT	CO
VENT LINE	-----	CLEANOUT TO GRADE	COTG
WASTE LINE	=====	FLOOR CLEANOUT	FCO
GAS LINE	----- G -----	BALL VALVE	⊘
VENT THRU ROOF	VTR	UNION	--- --- ---
CONNECTION TO EXISTING PIPING	⊙		

PLUMBING GENERAL NOTES:

- G-1

ALL PLUMBING SHALL BE INSTALLED AND CONFORM TO THE 2003 EDITION OF THE INTERNATIONAL PLUMBING CODE (IPC) WITH UTAH ANNOTATIONS AND LOCAL AUTHORITY REQUIREMENTS.
- G-2

ALL PIPING MATERIALS SHALL MEET ALL REQUIREMENTS OF IPC AND LOCAL AUTHORITY. PLASTIC PIPING SHALL BE ALLOWED ONLY WHERE ALLOWED BY CODE. PLASTIC PIPING SHALL NOT BE ROUTED THROUGH RETURN AIR PLENUMS OR OTHER AREAS PROHIBITED BY THE IMC, IPC OR NFPA CODES OR BY LOCAL AUTHORITY
- G-3

GAS PIPING INSTALLATION SHALL BE IN STRICT ACCORDANCE WITH GAS COMPANY REGULATIONS, NFPA CODE REQUIREMENTS, AND LOCAL AUTHORITY.
- G-4

ALL MATERIALS SHALL BE NEW AND SHALL BE DOMESTIC MADE UNLESS SPECIFICALLY APPROVED OTHERWISE IN WRITING BY ARCHITECT OR OWNER.
- G-5

PROVIDE VACUUM BREAKERS AND BACK FLOW PREVENTERS WHERE REQUIRED BY CODE OR WHERE THERE MAY BE ANY POSSIBLE CHANCE FOR CROSS CONTAMINATION. PREVENTERS SHALL BE INSTALLED IN ACCORDANCE WITH UTAH CODE.
- G-6

ALL PLUMBING INFORMATION IS NOT LIMITED TO THE PLUMBING DRAWINGS. CONTRACTOR SHALL BE RESPONSIBLE FOR INFORMATION ON ALL OTHER CONSTRUCTION DOCUMENTS INCLUDING ARCHITECTURAL DRAWING, STRUCTURAL DRAWINGS, MECHANICAL DRAWINGS, AND ELECTRICAL DRAWINGS.
- G-7

THE WORKING DRAWINGS ARE DIAGRAMMATIC. BECAUSE OF THE SMALL SCALE OF THE DRAWING, THEY DO NOT SHOW EVERY OFFSET, BEND OR ELBOW NECESSARY FOR THE COMPLETE INSTALLATION IN THE SPACE PROVIDED. ALL PIPING SHALL BE CHECKED AND COORDINATED WITH THE ARCHITECTURAL, STRUCTURAL, MECHANICAL, AND ELECTRICAL DRAWINGS.
- G-8

COORDINATE ALL PIPING AND PLUMBING EQUIPMENT WITH ALL OTHER TRADES AND/OR CONTRACTORS PRIOR TO INSTALLATION.
- G-9

ANY AND ALL ALTERATIONS TO THE SYSTEM SHOWN SHALL BE THE RESPONSIBILITY OF THIS CONTRACTOR AND ARCHITECT/ENGINEER SHALL BE NOTIFIED IN WRITING PRIOR TO CHANGES.
- G-10

GAS LINE FITTINGS SHALL BE STANDARD WELD FITTINGS WITH TAPERED REDUCERS. DO NOT USE VALVES, UNIONS, OR AUTO CONTROLS IN GAS LINES ROUTED IN INACCESSIBLE CONCEALED SPACES.
- G-11

ALL WATER SYSTEMS SHALL MEET THE REQUIREMENTS OF ANSI/NSF STANDARD 61 SECTION 9 (1998), CONCERNING METAL CONTAMINANTS IN THE WATER SYSTEM.
- G-12

WATER PIPING SHALL NOT BE ROUTED IN OUTSIDE WALLS OR ON EXTERIOR SIDE OF BUILDING INSULATION ENVELOPE.
- G-13

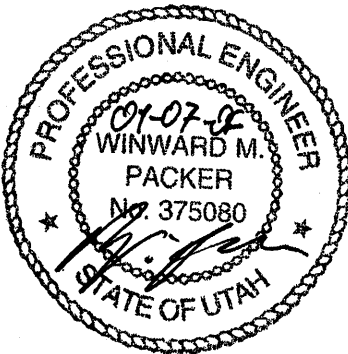
WATER HAMMER ARRESTORS SHALL BE INSTALLED IN ALL WATER LINES WITH QUICK OPEN OR QUICK CLOSE VALVES.

WATER HAMMER ARRESTOR SCHEDULE:
TYPE A 1-11 FIXTURE UNITS
TYPE B 12-32 FIXTURE UNITS
TYPE C 33-60 FIXTURE UNITS
TYPE D 61-113 FIXTURE UNITS



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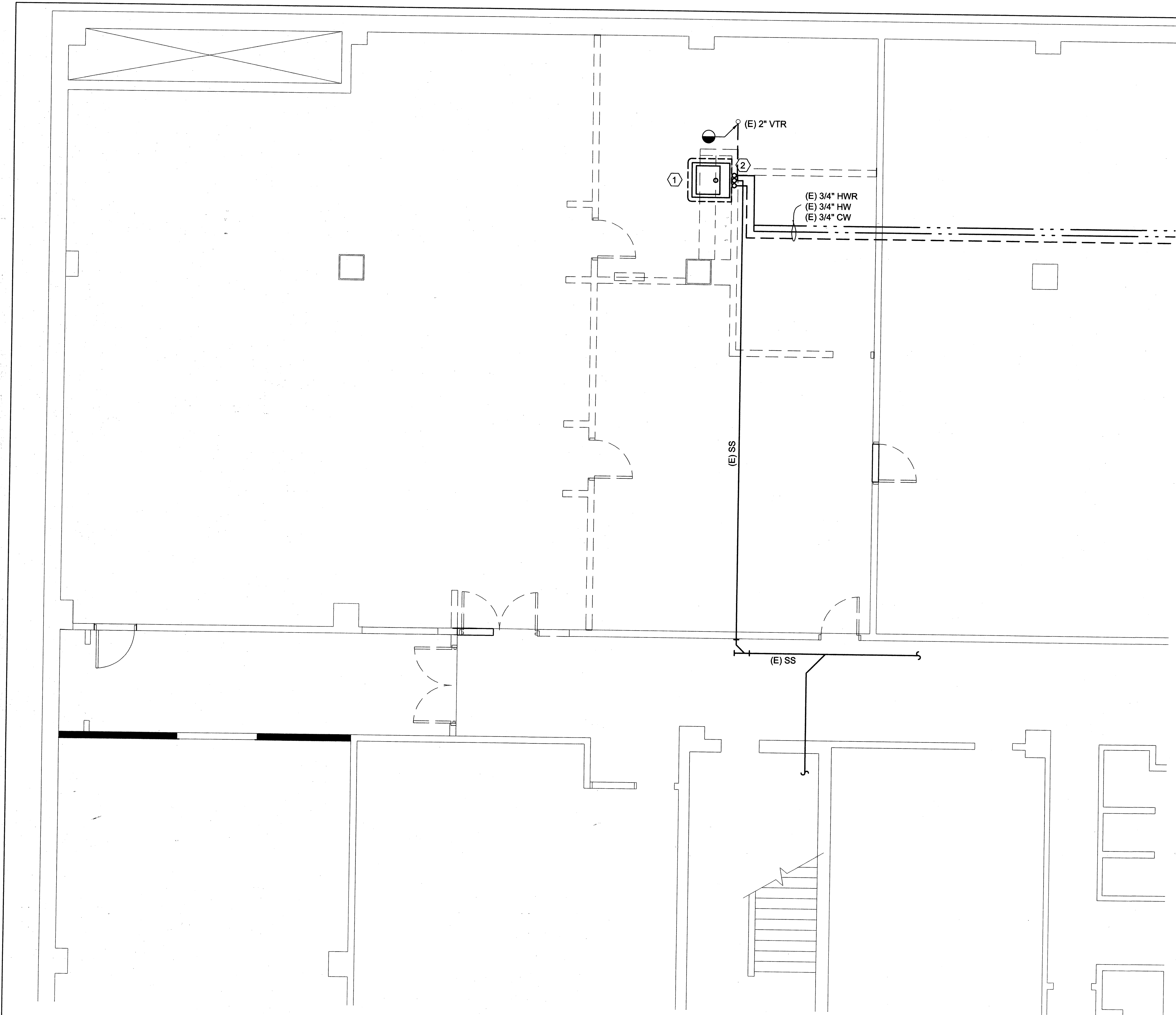
Date: 09/01/06

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PLUMBING GENERAL
NOTES AND LEGENDS

P001



- SHEET NOTES:**
- ① REMOVE EXISTING SINK SALVAGE TO OWNER
 - ② REMOVE (E) CW & HW PIPING DROP IN WALL TO SINK.

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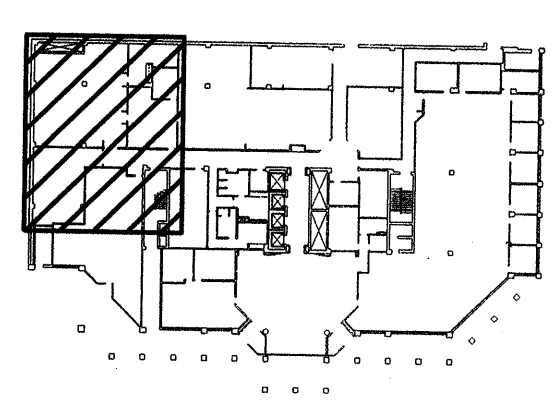
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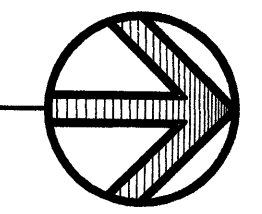
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KEY PLAN

PLUMBING DEMOLITION PLAN
SCALE: 1/4" = 1'-0"



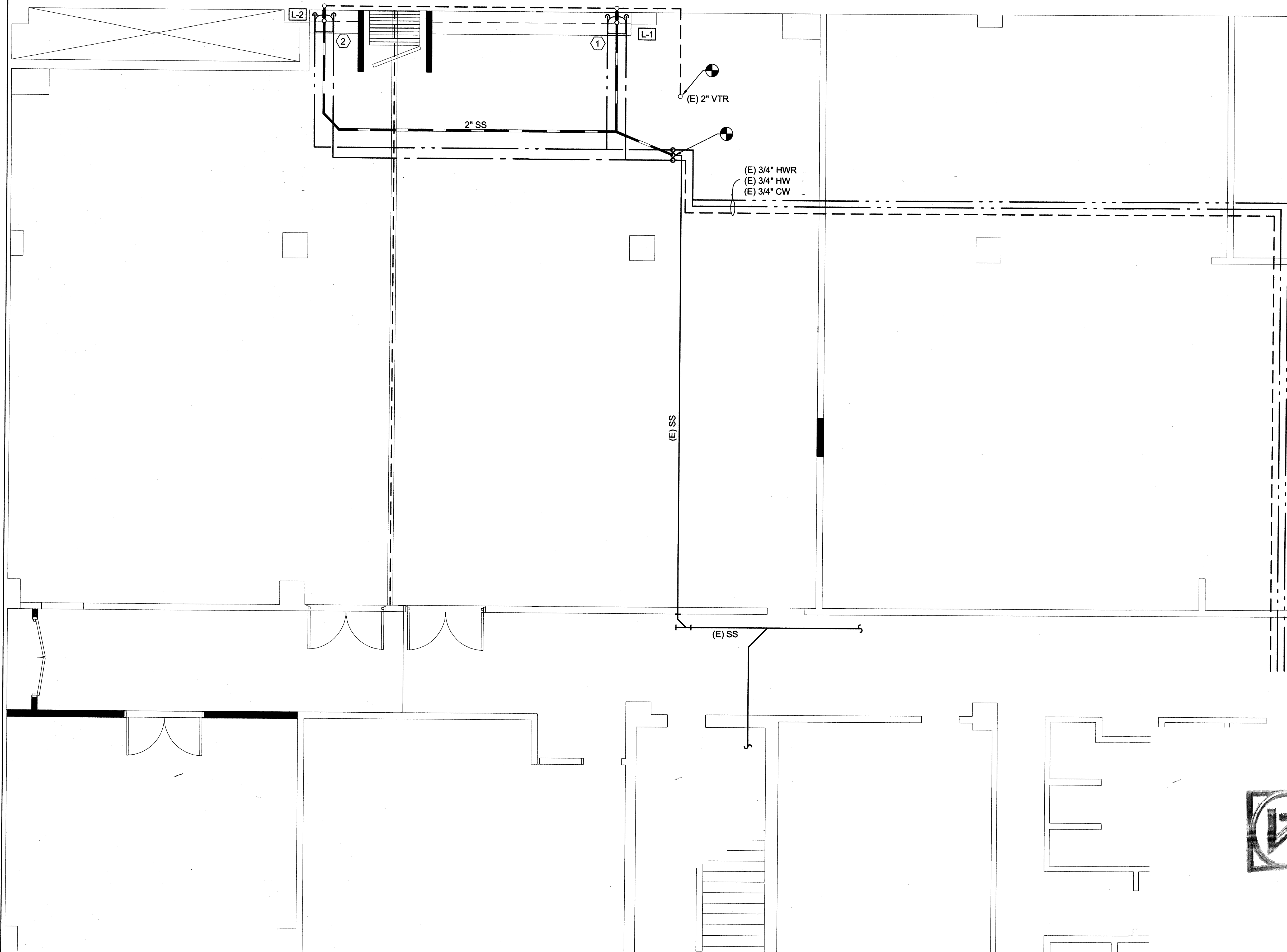
Date: 09/01/06

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PLUMBING
DEMOLITION PLAN

PD101



- SHEET NOTES:**
- ① ALTERNATE "B" SINK, FAUCET, AND PLUMBING.
 - ② ALTERNATE "D" SINK, FAUCET, AND PLUMBING.

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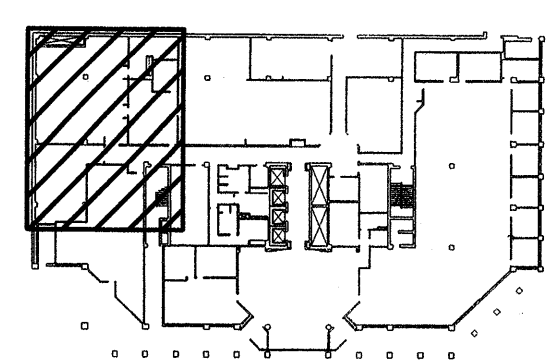
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THALMAN ARCHITECT

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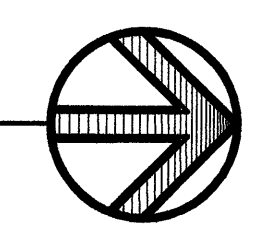
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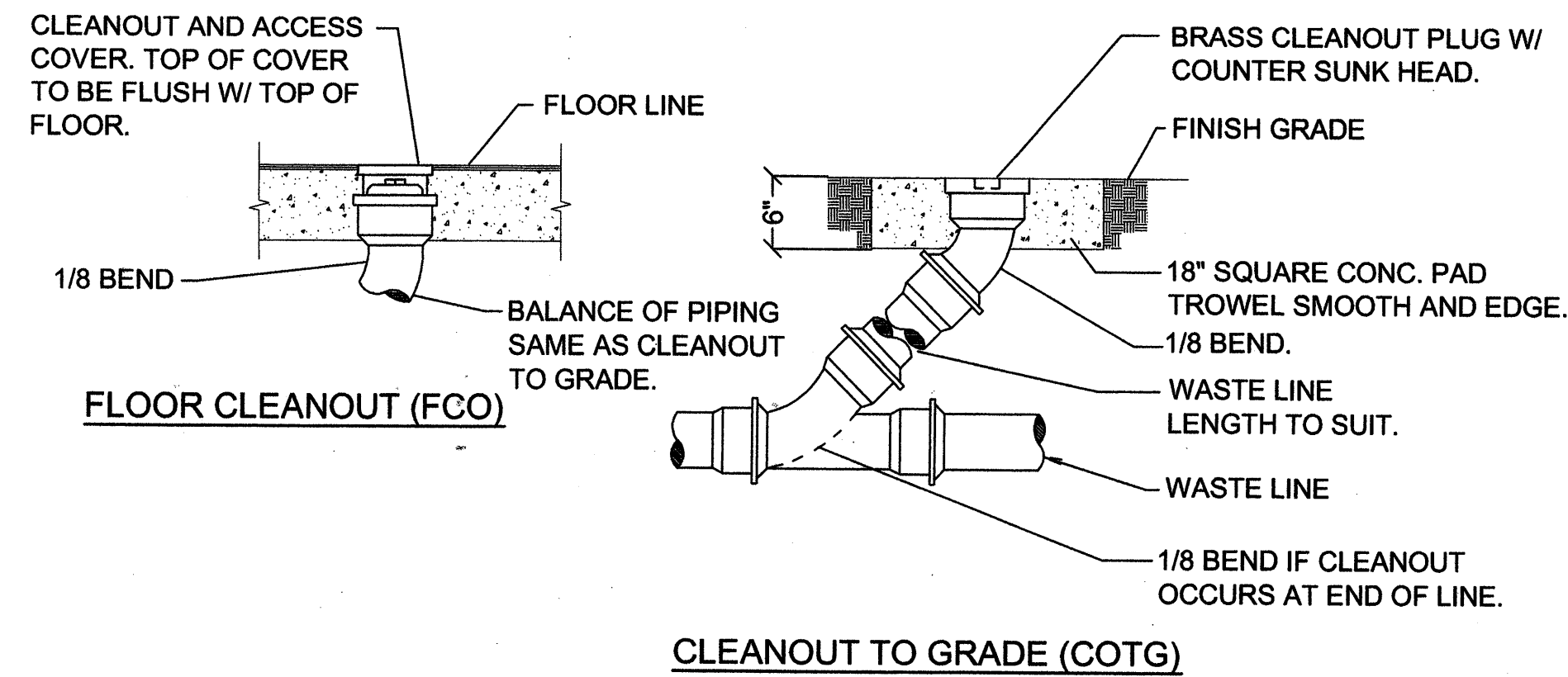
PLUMBING PLAN
SCALE: 1/4" = 1'-0"



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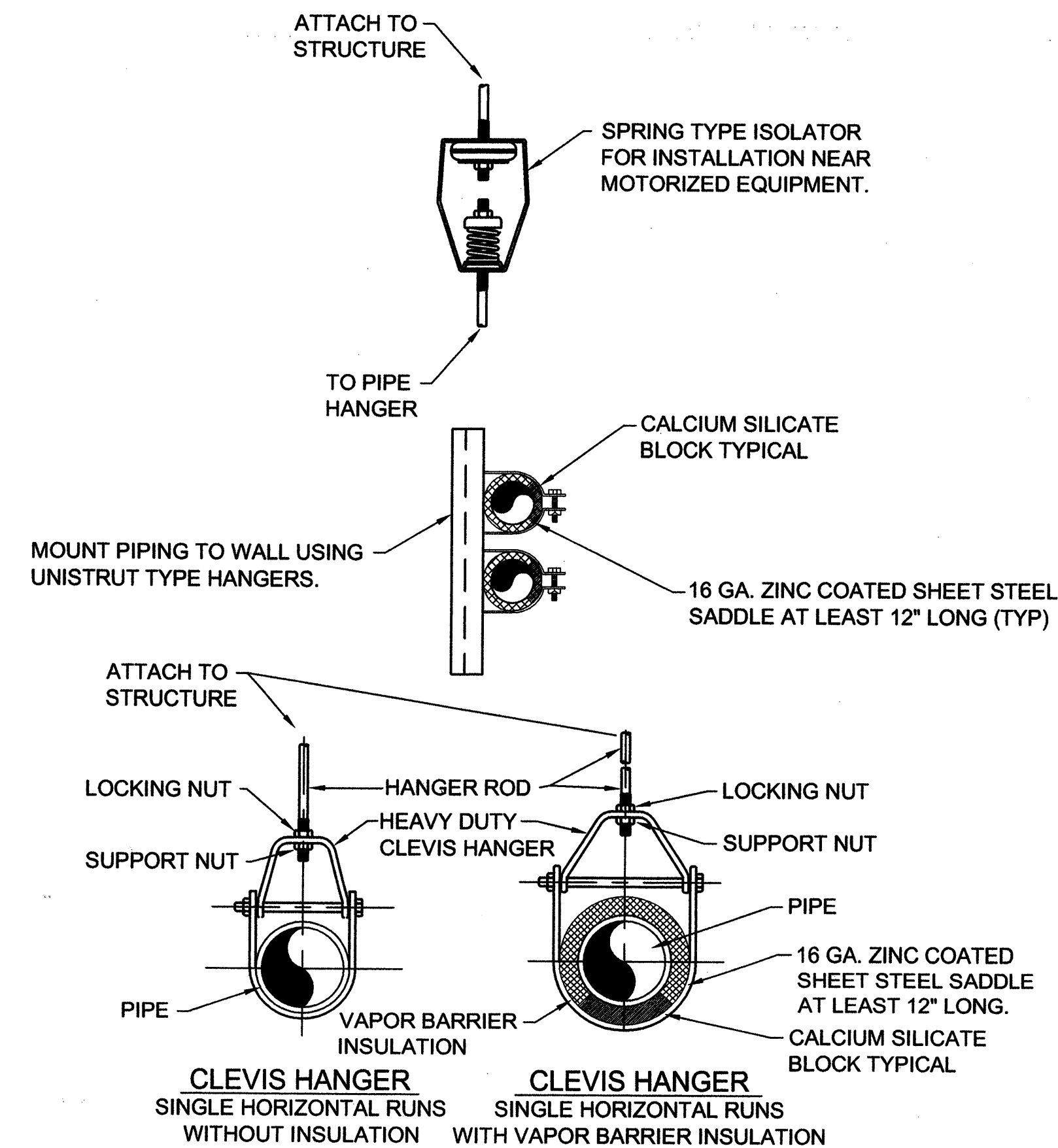
PLUMBING PLAN

PE101

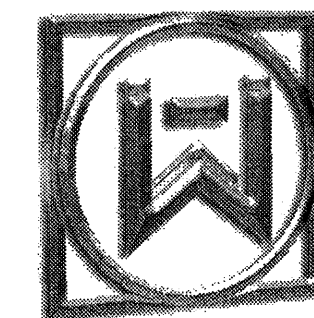


C1 CLEAN-OUT DETAILS
SCALE: NONE

PLUMBING FIXTURE SCHEDULE							
SYMBOL	FIXTURE	INDIVIDUAL LINE SIZES					REMARKS
		TRAP	WASTE	VENT	COLD WATER	HOT WATER	
L-1	LAVATORY ALTERNATE #1	1-1/2"	1-1/2"	1-1/2"	1/2"	1/2"	COUNTER MOUNTED
L-2	LAVATORY ALTERNATE#2	1-1/2"	1-1/2"	1-1/2"	1/2"	1/2"	COUNTER MOUNTED

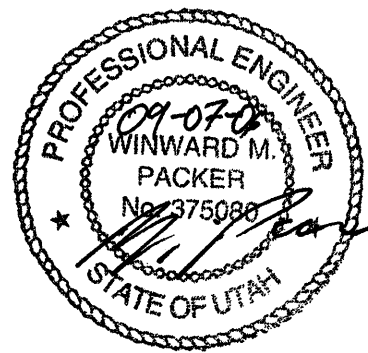


A5 PIPE HANGER DETAIL
SCALE: NONE



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PLUMBING DETAILS
AND SCHEDULES

PE601

GENERAL NOTES

- CONSULT ARCHITECTURAL REFLECTED CEILING PLANS FOR EXACT LOCATION OF ALL LIGHTING FIXTURES.
- VERIFY ALL EQUIPMENT DIMENSIONS AND LOCATIONS BEFORE BEGINNING ROUGH IN. CONSULT ALL APPLICABLE CONTRACT DRAWINGS AND SHOP DRAWINGS TO INSURE NEC CODE CLEARANCES REQUIRED AROUND ALL ELECTRICAL EQUIPMENT.
- CONTRACTOR SHALL VERIFY ALL ELECTRICAL LOADS (VOLTAGE, PHASE, CONNECTION REQUIREMENTS, ETC.) OF EQUIPMENT FURNISHED UNDER DIVISION 15 WITH APPROVED MECHANICAL SHOP DRAWINGS BEFORE BEGINNING ROUGH IN.
- SEE SECTION 16510 OF THE SPECIFICATION REQUIRED COORDINATION MEETINGS WITH MECHANICAL AND CEILING CONTRACTORS.
- SEE APPLICABLE SHOP DRAWINGS FOR ROUGH IN LOCATION OF ALL EQUIPMENT, WIRING DEVICES, ETC. WHERE APPLICABLE MOUNT ALL WIRING DEVICES ABOVE BACK SPLASH EXCEPT THOSE SERVING UNDER COUNTER EQUIPMENT.
- SEE SPECIFICATION FOR ENERGY SAVING LAMP AND BALLAST REQUIREMENTS.
- FINISHES OF ALL LIGHT FIXTURES SHALL BE AS SELECTED BY ARCHITECT.
- THE ELECTRICAL CONTRACTOR SHALL NOTIFY AND COOPERATE WITH THE MECHANICAL CONTRACTOR SUCH THAT NO PIPING, DUCTS, OR EQUIPMENT FOREIGN TO THE OPERATION OF THE ELECTRICAL EQUIPMENT SHALL BE PERMITTED TO BE INSTALLED IN, ENTER OR PASS THRU ELECTRICAL ROOMS OR SPACES, OR ABOVE OR BELOW ELECTRICAL EQUIPMENT IN OTHER AREAS.
- ELECTRICAL BOXES SHALL NOT BE LOCATED IN MASONRY COLUMNS IN BRICK WALLS OR IN GROUTED CELLS ADJACENT TO OPENINGS. COORDINATE LOCATION OF BOXES WITH MASONRY CONTRACTOR.
- ALL PENETRATIONS OF FIRE RATED FLOORS, WALLS, AND CEILINGS SHALL BE SEALED WITH APPROVED MATERIAL TO MAINTAIN FIRE RATING OF SURFACE PENETRATED.
- CIRCUITS EXTENDING OVER 70' FOR 120 VOLT AND 165' FOR 277 VOLT 20 AMP CIRCUITS SHALL BE RUN WITH MINIMUM #10 CONDUCTORS.

INDEX OF ELECTRICAL DRAWINGS

- E0.1 SYMBOLS, AND NOTES
E2.1 DEMOLITION LIGHTING PLAN
E2.2 LIGHTING PLAN
E3.1 DEMOLITION POWER PLAN
E3.2 POWER PLAN
E4.1 PANEL LOCATION PLAN - LOWER LEVEL PARKING
E4.2 PANEL LOCATION PLAN - UPPER LEVEL PARKING
E4.3 PANEL LOCATION PLAN - FIRST FLOOR
E4.4 PANEL LOCATION PLAN - SECOND FLOOR
E5.1 ONE-LINE DIAGRAM AND SCHEDULES
E6.1 ELECTRICAL DIAGRAMS
E6.2 ELECTRICAL DIAGRAMS

ELECTRICAL SYMBOL SCHEDULE

- SEE FIXTURE SCHEDULE FOR TYPE, MOUNTING AND WATTAGE.
- HEIGHT MEASURED TO CENTER LINE OF THE BOX FROM THE FINISH FLOOR.
- REFER TO DRAWINGS FOR DIRECTIONAL ARROWS.
- SUBSCRIPT KEYS SWITCH TO FIXTURES CONTROLLED.
- NEMA TYPE AND NON-FUSED UNLESS NOTED "F" (FUSED). USE "HD" 480 V.
- HEIGHT TO BE THE LOWER OF EITHER 80" A.F.F. OR 6" BELOW CEILING.
- PROVIDE H.O.A. AND S.S. PUSHBUTTONS AS REQUIRED.

- DOUBLE ARROWS DENOTE A DOUBLE FACE UNIT.
 - COORDINATE WITH MILLWORK SHOP DRAWINGS AND ELEVATIONS FOR HEIGHT.
 - SUBSCRIPT DENOTES NEMA CONFIGURATION.
 - HEIGHT MEASURED TO BOTTOM OF THE BOX FROM FINISH FLOOR.
- * TYPICAL SYMBOL SCHEDULE. SOME SYMBOLS MAY NOT BE USED IN THIS SET OF DRAWINGS.

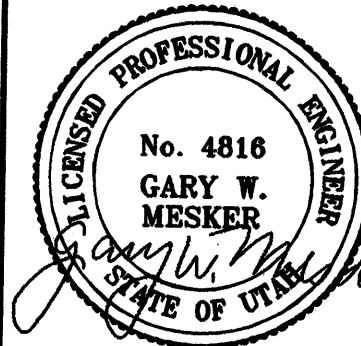
STANDARD MOUNTING HEIGHT UNLESS OTHERWISE NOTED ON PLANS

SYMBOL	DESCRIPTION	MOUNTING HEIGHT	NOTES
	ONE CIRCUIT, TWO WIRE HOME RUN TO PANEL		
	2 CIRCUIT, 3 WIRE, COMMON NEUTRAL HOME RUN		
	3 CIRCUIT, 4 WIRE, COMMON NEUTRAL HOME RUN		
	CONDUIT RUN CONCEALED IN WALL OR CEILING		
	CONDUIT RUN CONCEALED IN FLOOR OR GROUND		
	CONDUIT UP		
	CONDUIT DOWN		
	CONDUIT STUB LOCATION	CAP CONDUIT	
	CABLE TRAY	AS NOTED	
	CEILING LIGHT FIXTURE	CEILING	1.
	WALL LIGHT FIXTURE	AS NOTED	1.
	RECESSED DOWNLIGHT FIXTURE	CEILING	1.
	FLUORESCENT LIGHT FIXTURE	AS NOTED	1
	FLUORESCENT EGRESS LIGHT FIXTURE	AS NOTED	UNSWITCHED
	AREA LIGHT POLE AND FIXTURE	CONCRETE BASE	SEE DIAGRAM
	FLOOD OR TRACK FIXTURE	AS NOTED	
	CEILING MOUNTED EXIT LIGHT	CEILING	1.3.8.
	WALL MOUNTED EXIT LIGHT	AS NOTED	1.3.8.
	SINGLE POLE SWITCH	+4'-0"	2.
	SINGLE POLE SWITCH	+4'-0"	4. 2.
	THREE-WAY SWITCH	+4'-0"	2.
	FOUR-WAY SWITCH	+4'-0"	2.
	KEY OPERATED SWITCH	+4'-0"	2.
	SWITCH WITH PILOT LIGHT	+4'-0"	2.
	VARIABLE INTENSITY SWITCH	+4'-0"	2.
	TIMER SWITCH	+4'-0"	2.
	MOMENTARY CONTACT SWITCH, CENTER POSITION OFF	+4'-0"	2.
	OCCUPANCY SENSOR	CEILING	
	OCCUPANCY SENSOR	+4'-0"	2.
	POWER PACK	CEILING	SEE DIAGRAM, SPEC.
	AUTOMATIC RELAY PACK	CEILING	SEE DIAGRAM, SPEC.
	LOW VOLTAGE TRANSFORMER		
	DUPLEX RECEPTACLE UPPER OUTLET SWITCH CONTROLLED	+16" OR AS NOTED	9. 11.
	SIMPLEX RECEPTACLE	+16" OR AS NOTED	9. 11.
	DUPLEX RECEPTACLE	+16" OR AS NOTED	9. 11.
	DUPLEX RECEPTACLE		9.
	ELECTRIC WATER COOLER RECEPTACLE		SEE DIAGRAM
	WEATHERPROOF RECEPTACLE	+24" OR AS NOTED	2. 9.
	ISOLATED GROUND RECEPTACLE	+16" OR AS NOTED	9. 11.
	GROUND FAULT INTERRUPTER DUPLEX RECEPTACLE	+16" OR AS NOTED	9. 11.
	DUPLEX RECEPTACLE EMERGENCY POWER (RED)	+16" OR AS NOTED	9. 11.
	FOURPLEX RECEPTACLE	+16" OR AS NOTED	9. 11.
	FOURPLEX RECEPTACLE EMERGENCY POWER (RED)	+16" OR AS NOTED	9. 11.
	FLOOR OUTLET WITH 20A DEVICE	FLOOR	
	MULTIPLE SERVICE FLOOR BOX	FLOOR	
	SPECIAL PURPOSE OUTLET	+16" OR AS NOTED	10. WITH CAP. 11.
	CORD DROP		SEE DIAGRAM
	PLUGMOLD	+46" OR AS NOTED	
	TELEVISION OUTLET	+16" OR AS NOTED	11.
	DATA OUTLET	+16" OR AS NOTED	9. 11.
	TELEPHONE OUTLET	+16" OR AS NOTED	9. 11.
	TELEPHONE/DATA OUTLET	+16" OR AS NOTED	9. 11.
	TELEPHONE OUTLET	FLOOR	
	CALL SWITCH	+4'-0"	2.
	CLOCK OUTLET	+7'-6"	8.
	CLOCK/SPEAKER COMBINATION	+7'-6"	

STANDARD MOUNTING HEIGHT UNLESS OTHERWISE NOTED ON PLANS

SYMBOL	DESCRIPTION	MOUNTING HEIGHT	NOTES
	JUNCTION BOX (F' IN FLOOR)	AS NOTED	
	MOTOR OUTLET	TO SUIT EQUIP.	
	PHOTO-ELECTRIC CONTROL	AS NOTED	TORK 2000A
	TIME CLOCK	+5'-0"	2.
	PUSHBUTTON	+4'-0"	2.
	NON-FUSED DISCONNECT SWITCH	+5'-0"	5.
	FUSED DISCONNECT SWITCH	+5'-0"	5.
	MANUAL STARTER THERMAL OVERLOAD SWITCH WITH PILOT LIGHT	+4'-0"	2.
	MAGNETIC STARTER	+5'-0"	7.
	MAGNETIC STARTER / DISCONNECT COMBINATION	+5'-0"	
	VARIABLE FREQUENCY DRIVE	+6'-6"	
	PANEL BOARD	TOP AT +6'-0"	
	MAIN DISTRIBUTION PANEL		
	TELEPHONE TERMINAL BOARD		
	BELL	+7'-6"	
	CHIME	+7'-6"	
	FIRE ALARM MANUAL STATION	+4'-0"	2.
	FIRE ALARM SIGNAL HORN/STROBE PROJECTORS	+6'-8"	6.
	FIRE ALARM SIGNAL HORN/STROBE	+6'-8"	6.
	FIRE ALARM SIGNAL SPEAKER/STROBE	+6'-8"	6.
	SMOKE DETECTOR	CEILING	
	DUCT SMOKE DETECTOR		MTD. IN DUCT
	HEAT DETECTOR	CEILING	
	FIRE/SMOKE DAMPER		
	DOOR HOLDER	AS NOTED	
	FLOW SWITCH		
	TAMPER SWITCH		
	WATER FLOOD INDICATOR		
	O.S. & Y. VALVE		SEE DIAGRAM
	FIRE ALARM RELAY		
	FIRE ALARM CONTROL MODULE		
	FIRE ALARM MONITOR MODULE		
	FIRE ALARM STROBE	+6'-8"	6.
	DURESS PUSHBUTTON	+4'-0"	
	SECURITY SYSTEM DOOR SWITCH	DOOR JAMB	
	SECURITY SYSTEM OVERHEAD DOOR SWITCH	CEILING	MOUNT AS PER. MAN.
	MAGNETIC SHEAR LOCK		
	SECURITY SYSTEM KEYED ACCESS SWITCH	+4'-0"	2.
	INFRARED SENSOR	AS NOTED	
	SECURITY MOTION DETECTOR		MOUNT AS PER. MAN.
	GLASS BREAK DETECTOR	CEILING	
	ELECTRIC DOOR STRIKE		
	ACCESS CONTROL CARD READER	+4'-0"	2.
	CLOSED CIRCUIT TELEVISION CAMERA	AS NOTED	
	DOOR POSITION INDICATING SWITCH		
	SOUND SYSTEM SPEAKER	+8'-0" OR AS NOTED	
	INTERCOM SPEAKER	AS NOTED	
	VOLUME CONTROL	+4'-0"	2.
	MICROPHONE OUTLET	+16"	11.
	MICROPHONE FLOOR OUTLET	FLOOR	
	MICROPHONE CEILING OUTLET	CEILING	
	SOUND EQUIPMENT CABINET		CIRCUIT TO 120V
	ARCHITECTURAL ROOM NUMBER		
	LIGHT FIXTURE (LETTER DESIGNATES TYPE)		
	EQUIPMENT NUMBER		

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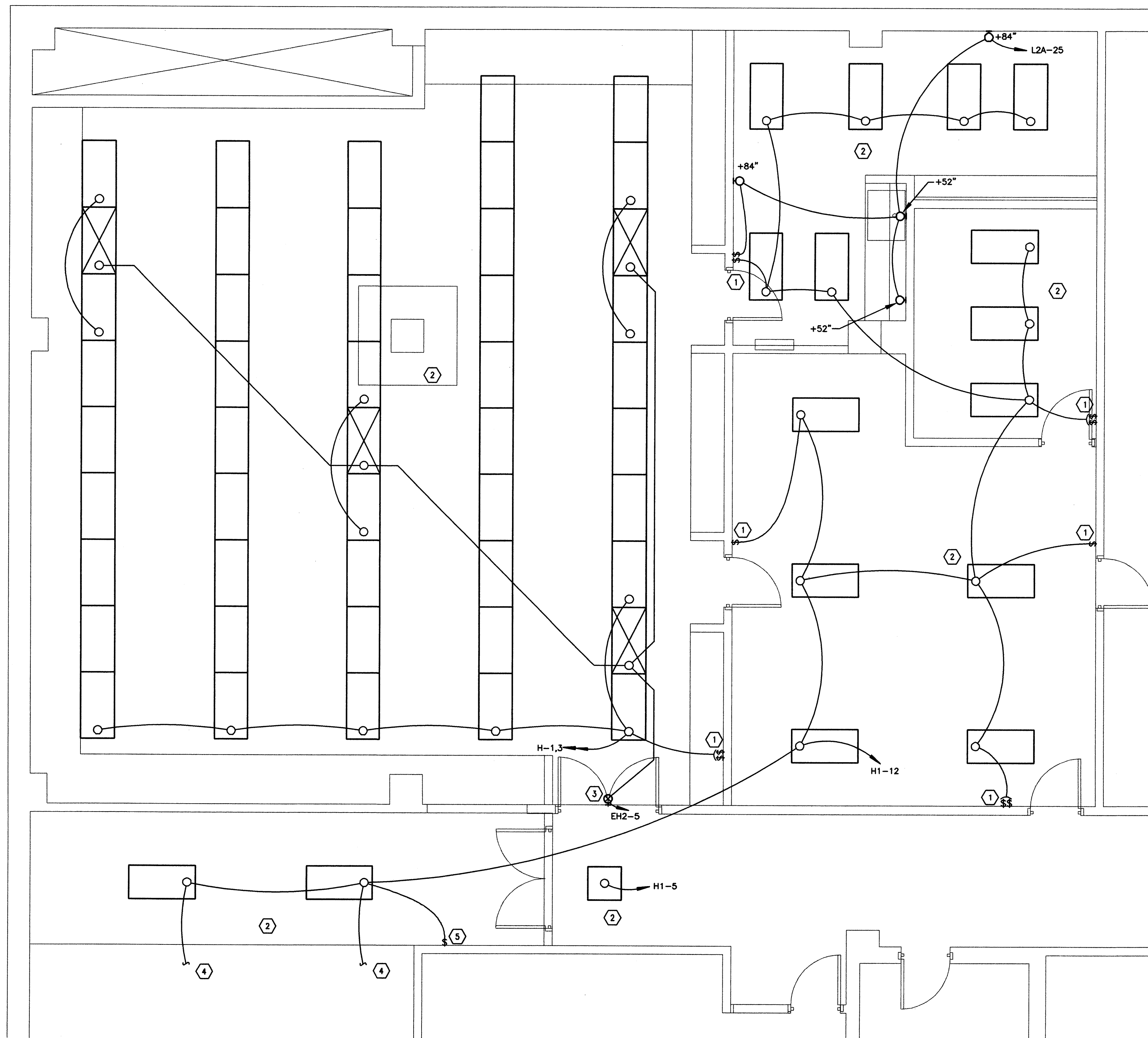
Drawn: BNA

Checked: LM

SYMBOLS,
AND NOTES

E0.1

By: bhammond: Sep 01, 2006 - 10:37am
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PLAN
NORTH
DEMOLITION LIGHTING PLAN
1/4" = 1'-0"
0 2 4 8'

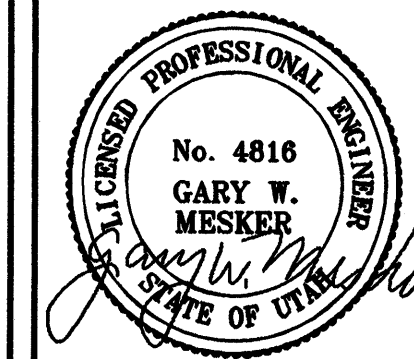
DEMOLITION NOTES

1. COORDINATE ALL NEW ELECTRICAL EQUIPMENT REQUIREMENTS AND MAKE CONNECTION TO EXISTING SYSTEMS. THIS INCLUDES LIGHTING, POWER, SIGNAL, RACEWAY AND OTHER SYSTEMS INCLUDED UNDER DIVISION 16.
2. RELOCATE, REWIRE AND/OR RECONNECT EXISTING ELECTRICAL DEVICES AND/OR EQUIPMENT THAT FOR ANY REASON OBSTRUCTS CONSTRUCTION.
3. CONCEAL ALL RACEWAY AND WIRING IN EXISTING WALLS, CEILINGS, FLOORS, ETC. EXCEPT WHERE THE USE OF SURFACE METAL RACEWAYS (E.G. WIRE MOLD) IS INDICATED ON DRAWINGS OR IN SPEC.
4. LEAVE ALL EXISTING EQUIPMENT, IN PORTIONS OF THE BUILDING NOT BEING REMODELED, IN WORKING CONDITION. RESTORE ALL INTERRUPTED BRANCH CIRCUITS, FEEDERS, ETC. TO WORKING CONDITION.
5. EXISTING RACEWAYS MAY BE REUSED (IN PLACE) WHERE POSSIBLE, AND WHERE IN COMPLIANCE WITH THE SPECIFICATIONS AND THE INTENT OF THE CONTRACT DOCUMENTS. INSURE INTEGRITY OF EXISTING RACEWAY BEFORE REUSE.
6. REMOVE ALL RACEWAYS, CONDUCTORS, BOXES, DEVICES, EQUIPMENT, ETC. THAT ARE NOT TO BE REUSED.
7. REMOVE EXISTING LIGHT FIXTURES WHICH ARE NOT TO BE REUSED, PLACE IN CARTON, LABEL APPROPRIATELY, AND RETURN TO OWNER, OR PROPERLY DISPOSE OF FIXTURES THAT THE OWNER CHOOSES NOT TO KEEP.
8. DO NOT PENETRATE STRUCTURAL ELEMENTS OF FLOORS, WALLS, CEILINGS, ROOFS, ETC.
9. DISCONNECT AND RECONNECT ANY/ALL FIXTURES, DEVICES, EQUIPMENT, ETC. REQUIRED FOR PROPER COMPLETION OF THE WORK.

SHEET KEYNOTES

- 1 EXISTING SWITCHES TO BE REMOVED.
- 2 CONTRACTOR SHALL REMOVE EXISTING LIGHT FIXTURES AND RETURN TO THE OWNER. MOST LIGHTING CIRCUITS SHALL BE RE-USED FOR NEW LIGHTING SHOWN ON SHEET E2.2.
- 3 EXISTING EXIT SIGN TO BE REMOVED. INSTALL NEW EXIT SIGN AS SHOWN ON SHEET E2.2.
- 4 DISCONNECT FROM EXISTING CIRCUIT. NEW FIXTURES SHOWN ON SHEET E2.2 SHALL BE CONNECTED TO EXISTING CORRIDOR LIGHTING CIRCUIT.
- 5 EXISTING SWITCH TO BE REMOVED. NEW SWITCH SHALL BE INSTALLED IN LOCATION SHOWN ON SHEET E2.2.

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6228 BRIGHAM FORK CIRCLE
SALT LAKE CITY, UTAH 84108
(801) 583-3632
(801) 582-1943 FAX

DWS ADMINISTRATION BUILDING
FIRST FLOOR CONFERENCE ROOM REMODEL
FOR THE STATE OF UTAH DFCM
140 EAST 300 SOUTH
SALT LAKE CITY, UTAH 84111

Date: 7/12/06

Drawn: BNA

Checked: LM

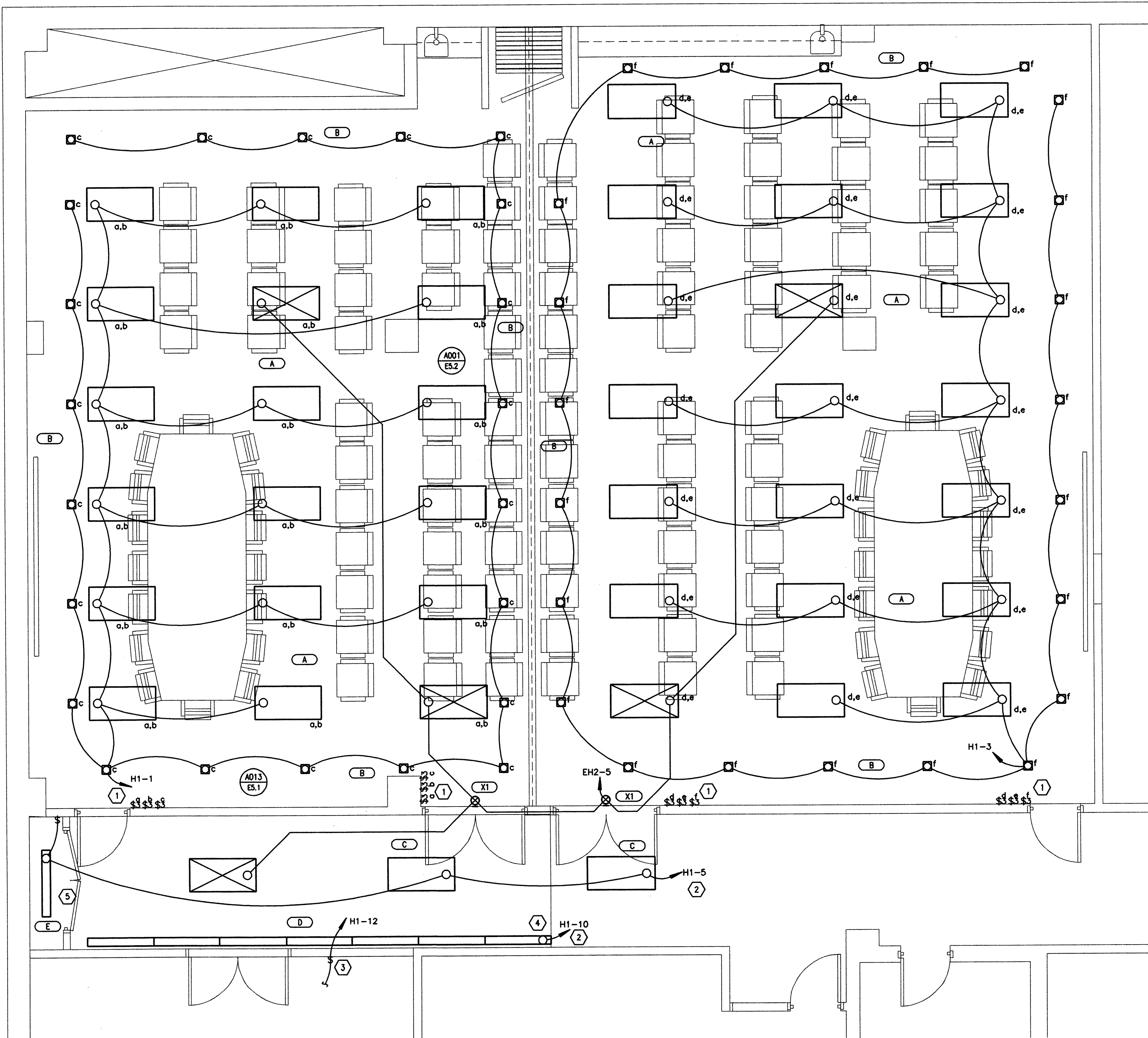
DEMOLITION
LIGHTING PLAN

E2.1

SHEET KEYNOTES

- 1 LIGHTING FIXTURES WILL BE CONTROLLED BY DUEL-LEVEL SWITCHING. ONE SWITCH CONTROLS ALL OUTBOARD LAMPS AND THE OTHER SWITCH, ALL IN BOARD LAMPS.
- 2 CONNECT NEW CORRIDOR FIXTURES TO THE EXISTING CORRIDOR LIGHTING CIRCUIT. NEW FIXTURES SHALL BE CONTROLLED ALONG WITH THE EXISTING CORRIDOR LIGHTS.
- 3 PROVIDE NEW SWITCH TO CONTROL EXISTING LIGHTS IN SPACE.
- 4 CONTINUE PERIMETER COVE DOWNLIGHTING SO THERE IS NO GAP BETWEEN THE EXISTING AND NEW COVES.
- 5 PROVIDE UNSWITCHED PORTION OF CIRCUIT SHOWN TO NEW SWITCH LOCATION.

NOTE TO CONTRACTORS: PROVIDE BID ALTERNATIVE 'C' PRICE WHICH INCLUDES A COMPLETE DIMMING SYSTEM FOR BOTH CONFERENCE ROOMS. THIS SYSTEM SHALL INCLUDE LUTRON NOVA-T 3-WAY WALLBOX DIMMERS # NT-103P-277-WH AND ACCESSORY DIMMERS # NT-3PS. PROVIDE TWO 3-WAY DIMMER SWITCHES FOR FIXTURE TYPE A AND TYPE B (TWO 3-WAY AND TWO ACCESSORY DIMMERS PER CONFERENCE ROOM). THE DIMMING BALLASTS FOR FIXTURE TYPE A SHALL BE LUTRON 3-WIRE ECO10 WHICH DIMS TO 10%. THE DIMMING BALLASTS FOR FIXTURE TYPE B SHALL BE LUTRON 3-WIRE ECO10 WHICH DIMS TO 10%. THE DIMMING BALLASTS FOR FIXTURE TYPE A SHALL BE LUTRON # ECO-TB-32-277-3 BALLASTS. FIXTURE TYPE B SHALL USE LUTRON # HL3-TA32-277-1-5 BALLASTS. ONE LUTRON POWER BOOSTER # HP-2 WILL BE NEEDED IN EACH CONFERENCE ROOM TO POWER FIXTURE TYPE A. INCLUDE IN PRICE ALL FIXTURES, WIRING, POWER BOOSTERS, DIMMERS AND BALLASTS NECESSARY FOR COMPLETE SYSTEM.

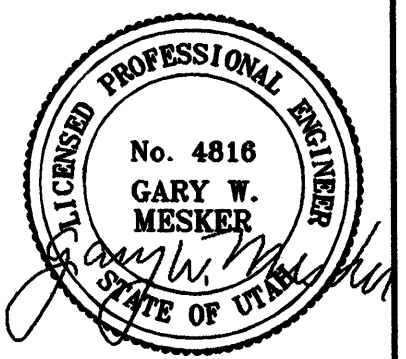


LIGHTING PLAN

1/4" = 1'-0"

0 2' 4' 6'

Seal



Revisions:

Date Description

No.

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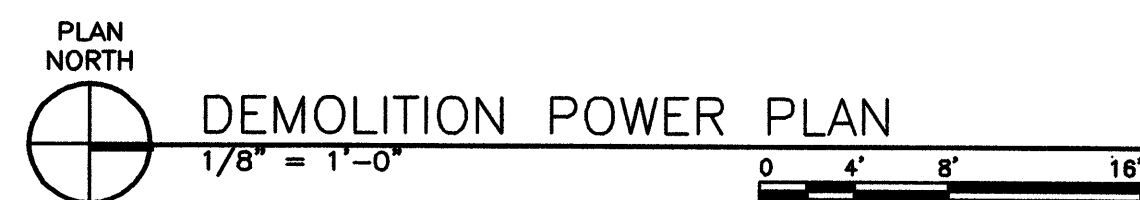
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LIGHTING
PLAN

E2.2



- ① EXISTING DUPLEX RECEPTACLE AND CIRCUITING TO REMAIN.
- ② EXISTING FLOOR RECEPTACLE LOCATION TO REMAIN. PROVIDE CONNECTION TO NEW CIRCUIT AS SHOWN.
- ③ PROVIDE NEW 110 CANDELA HORN/STROBE COMPATIBLE WITH THE EXISTING FIRE ALARM SYSTEM.
- ④ PROVIDE NEW HORN/STROBE IN LOCATION SHOWN. CONNECT TO EXISTING FIRE ALARM CIRCUIT.
- ⑤ NEW ELECTRONIC RING DIMMER. PROVIDE ALL POWER CONNECTIONS AND CONTROL WIRING PER MANUFACTURERS INSTRUCTIONS.

1. CONTRACTOR SHALL PROVIDE AND INSTALL 3/4" CONDUIT TO TELECOMMUNICATIONS ROOM AND JUNCTION BOXES REQUIRED FOR DATA AND TELEPHONE OUTLETS SHOWN ON PLAN. INCLUDE NYLON PULL STRING IN ALL EMPTY CONDUITS. DFCM PERSONNEL SHALL PROVIDE AND INSTALL ALL WIRING AND TERMINATION NECESSARY TO CONNECT TO THE EXISTING SYSTEMS.

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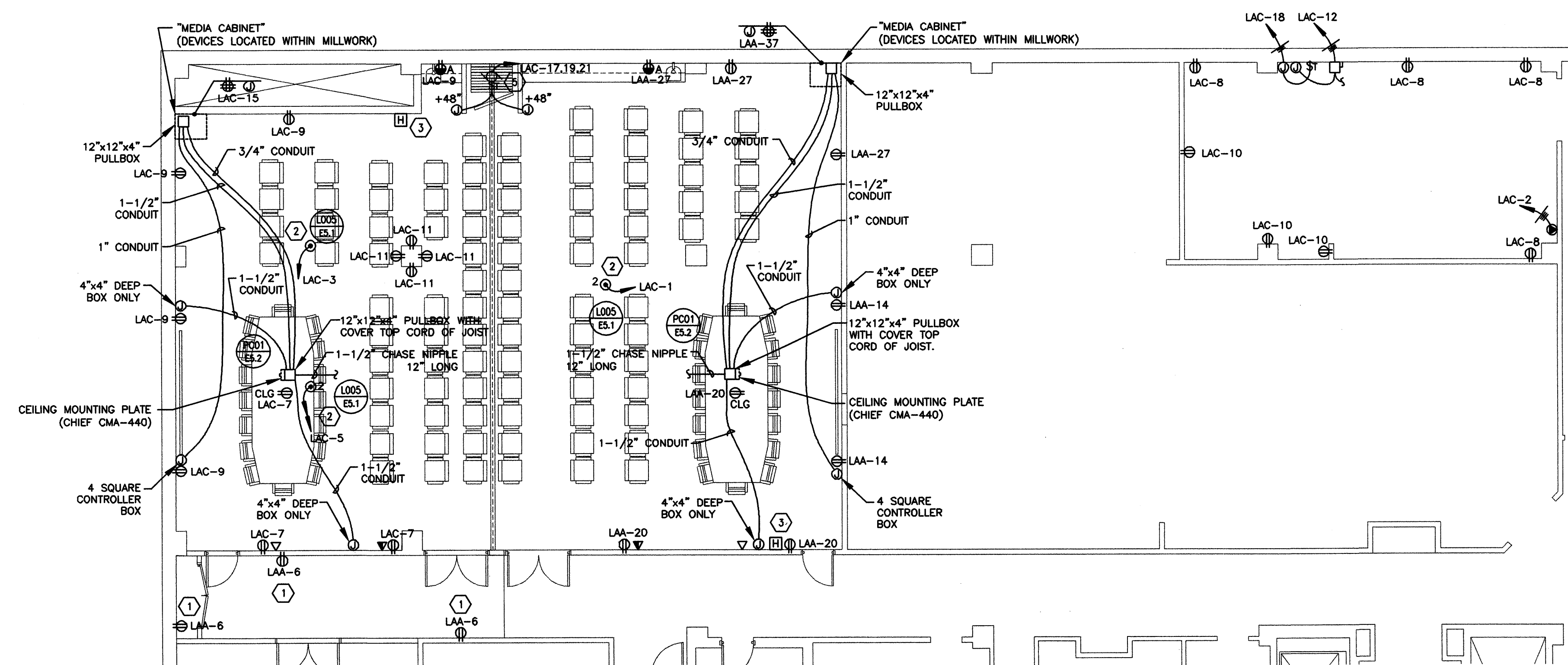
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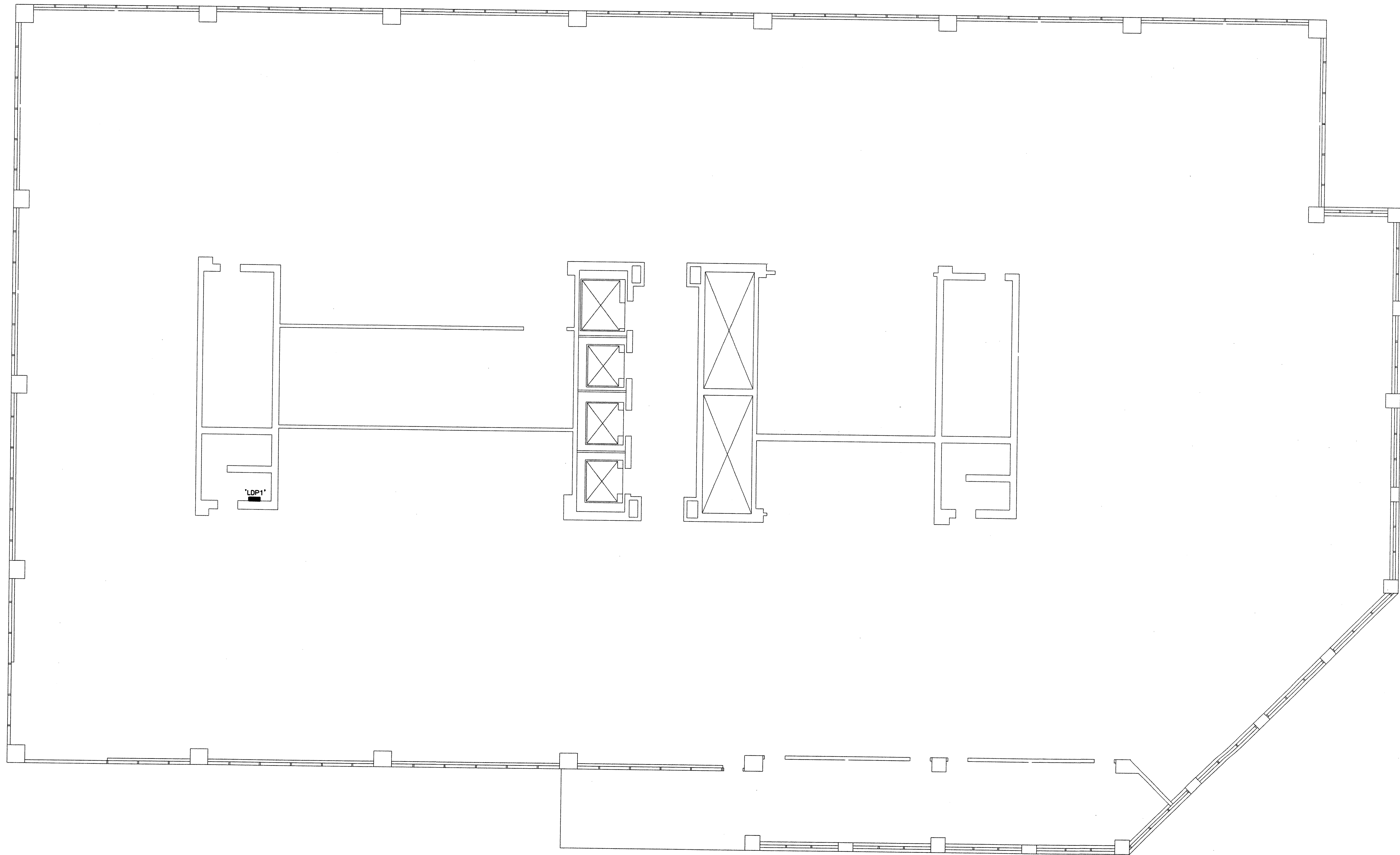
E3.2



PLAN
NORTH


$$\frac{1}{8}'' = 1' - 0''$$


By: thernwood, Sep 01, 2006 - 10:37am
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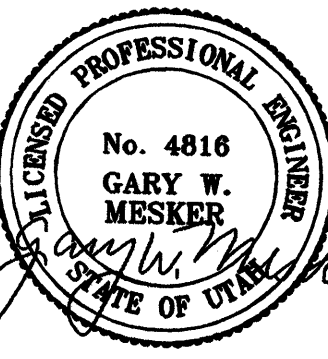


PANEL LOCATION PLAN -
LOWER LEVEL PARKING

1/8" = 1'-0"

0 4' 8' 16'

Seal



Revisions:

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140 EAST 300 SOUTH
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Date: 7/12/06

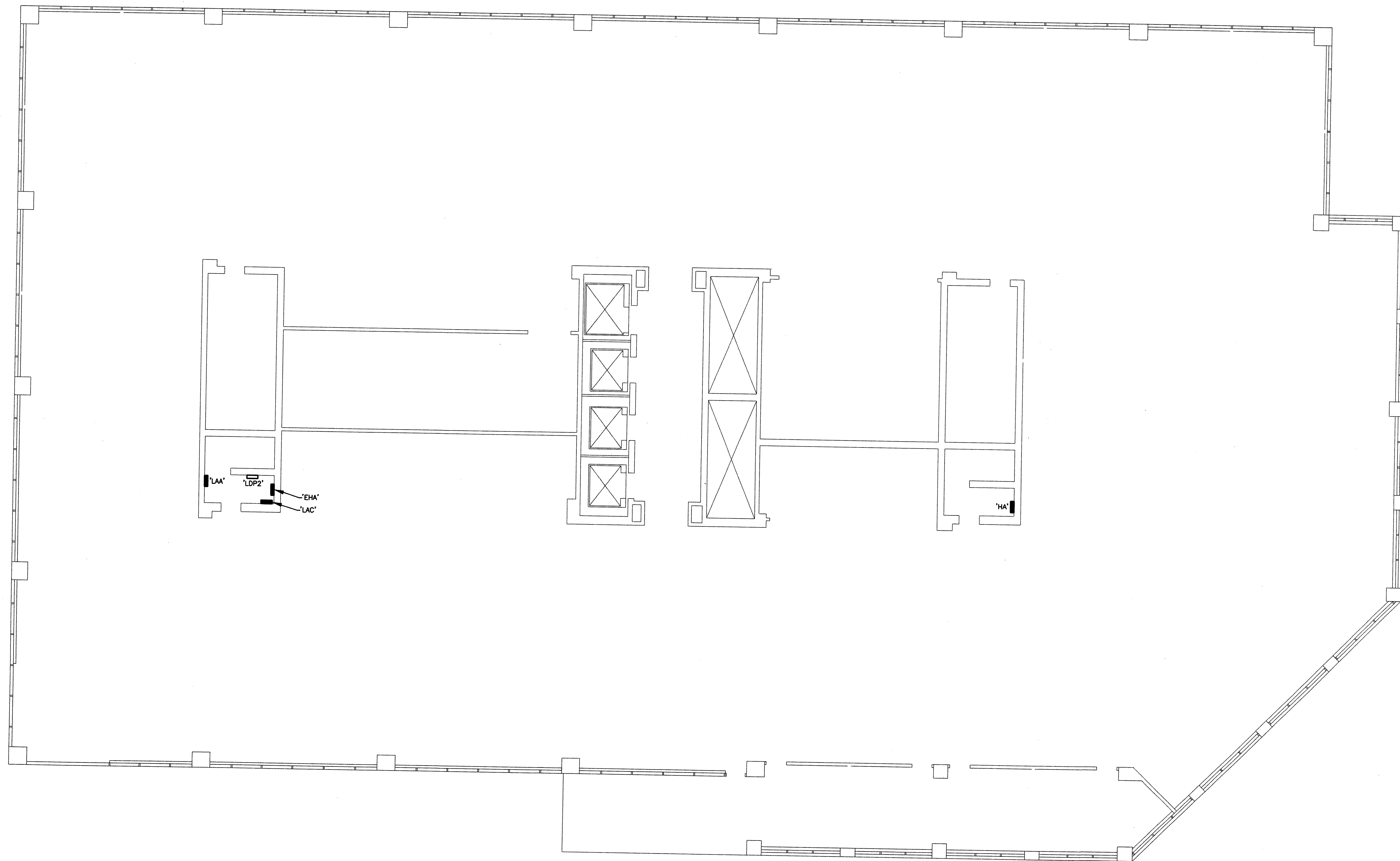
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PANEL
LOCATION
PLAN - LOWER
LEVEL
PARKING

E4.1

By: bhammond, Sep 01, 2006 - 10:37am
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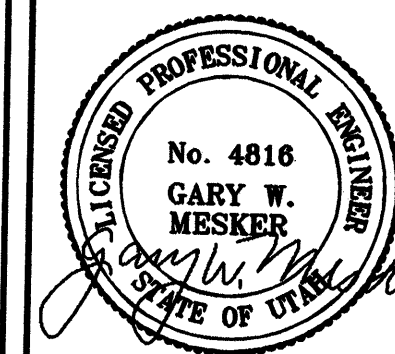


PANEL LOCATION PLAN -
UPPER LEVEL PARKING

1/8" = 1'-0"

0 4' 8' 16'

Seal



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140 EAST 300 SOUTH
SALT LAKE CITY, UTAH 84111

Date: 7/12/06

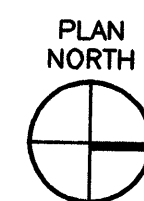
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PANEL
LOCATION
PLAN - UPPER
LEVEL
PARKING

E4.2

By: bhammond; Sep 01, 2008 - 10:37am
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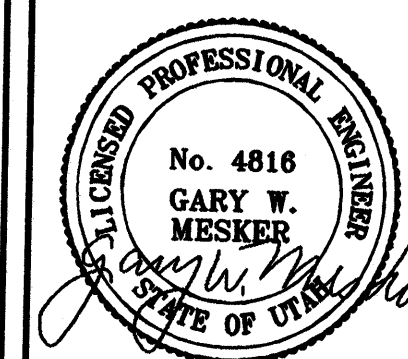


PANEL LOCATION PLAN -
FIRST FLOOR

1/8" = 1'-0"

0 4' 8' 16'

Seal



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FOR THE STATE OF UTAH DFCM
140 EAST 300 SOUTH
SALT LAKE CITY, UTAH 84111

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PANEL
LOCATION
PLAN -
FIRST FLOOR

E4.3

By: bhrommond, Sep 01, 2006 - 10:37am
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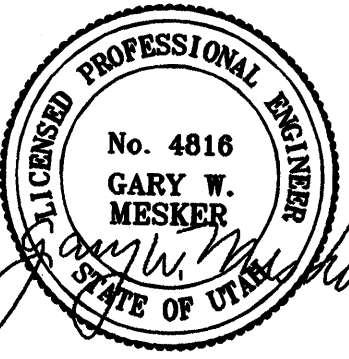


PANEL LOCATION PLAN -
SECOND FLOOR

1/8" = 1'-0"

0 4' 8' 16'

Seal



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PANEL
LOCATION
PLAN -
SECOND
FLOOR

E4.4

TYPE	DESCRIPTION	CATALOG NUMBER	VOLTS	LAMPS
A	2'X4' RECESSED PARABOLIC, 3-LAMP 3" DEEP CELL, SEMI-SPECULAR, 18 CELL LOW HARMONIC ELECTRONIC BALLAST TWO BALLAST FOR DUAL SWITCHING	COLUMBIA: P2-24-332-G-LD-3X6-S-EB8LH-277	277	(3) F32T8/835
A1	2'X4' RECESSED PARABOLIC, 3-LAMP 3" DEEP CELL, SEMI-SPECULAR, 18 CELL LOW HARMONIC ELECTRONIC BALLAST TWO BALLAST FOR DUAL SWITCHING	COLUMBIA: P2-22-317-G-LD-3X3-S-EB8LH-277	277	(3) F17T8/835
B	RECESSED DOWNLIGHT, 6" DIAMETER 32 WATT CFL, VERTICAL LAMP CLEAR ALZAK REFLECTOR	PRESCOLITE: CFQ826EB-STF602	277	(1) 32TRT 35K
C	2'X4' RECESSED TROFFER, 2-LAMP FLAT PRISMATIC LENS, A12.125 LOW HARMONIC ELECTRONIC BALLAST	COLUMBIA: 4PS-24-232-G-FA-A12-EB8LH-277	277	(2) F32T8/835
D	PERIMETER COVE LIGHT WHITE CROSS BAFFLE STAGGERED STRIP LIGHT USE 2', 3', AND 4' LAMPS AS NECESSARY TO COMPLETE LENGTH SHOWN ON PLANS	COLUMBIA: SS-4-2-32-EB8LH-277 LOUVERS INTERNATIONAL: PARA-IMAGE WHITE OPAL	277	(2) F32T8/835
E	4' NARROW WRAP 1-LAMP SURFACE MOUNTED	COLUMBIA: R04-132-EBB-277	277	(1) F32T8/835
X1	LED EXIT SIGN SINGLE SIDED, GREEN LETTERS, BRUSHED ALUMINUM FACE	DUAL-LITE: SESQWNE	120/277	INC

PANEL		H1		TYPE		EXISTING		277/480		VOLTS		3		PH		4		W					
MOUNTING		FLUSH X SURFACE		DIMENSIONS		20		W		LOCATION		ELECTRICAL ROOM 124		X LUGS BREAKER SUBFEED LUGS 150 GROUND 200% NEUTRAL		MAINS							
						6		D (in.)				AMP						225					
								H															
BRANCH BREAKERS																							
ITEM		AMPS	POLE	WIRE SIZE	CIR. NO.	LEFT PHASE LOAD			RIGHT PHASE LOAD			CIR. NO.	AMPS	POLE	WIRE SIZE	ITEM							
						A	B	C	A	B	C												
NEW CONF RM LIGHTS		20	1	10	1	2810			2820				2	20	1	10	EXISTING LIGHTS						
NEW CONF RM LIGHTS		20	1	10	3		3095		2820	2820			4	20	1	10	EXISTING LIGHTS						
EXISTING LIGHTS		20	1	10	5			2240					6	20	1	10	EXISTING LIGHTS						
EXISTING LIGHTS		20	1	10	7	3520			3200			3480	8	20	1	10	EXISTING LIGHTS						
EXISTING LIGHTS		20	1	10	9		3080			1700			10	20	1	10	EXISTING LIGHTS						
EXISTING LIGHTS		20	1	10	11			3400					12	20	1		SPARE						
EXISTING LIGHTS		20	1	10	13	3150							14	20	1		SPARE						
SPARE		20	1		15								16	20	1		SPARE						
SPARE		20	1		17								18				SPACE ONLY						
SPARE		20	1		19								20				SPACE ONLY						
SPARE		20	1		21								22				SPACE ONLY						
SPARE		20	1		23								24				SPACE ONLY						
SPARE		20	1		25								26				SPACE ONLY						
SPARE		20	1		27								28				SPACE ONLY						
SPARE		20	1		29								30				SPACE ONLY						
SPACE ONLY					31								32				SPACE ONLY						
SPACE ONLY					33								34				SPACE ONLY						
SPACE ONLY					35								36				SPACE ONLY						
SPACE ONLY					37								38	20	3	12	TRASH COMPACT						
SPACE ONLY					39								40	--	--	--							
SPACE ONLY					41								42	--	--	--							
						9480	6175	5640	6020	4520	3480												
						15500	10685	9120	TOTAL			CONNECTED LOAD TOTAL											
						55.96	38.61	32.92	AMPS/PHASE			35315 VA											
JOB NAME: CONFERENCE ROOM REMODEL																		EQUIP RATING		18000		AMPS RMS SYN.	

PANEL	EH2	TYPE	EXISTING		277/480	VOLTS	3	PH	4	W							
MOUNTING	DIMENSIONS		LOCATION		ELECTRICAL ROOM 248		X		LUGS								
FLUSH	20	W							BREAKER								
X SURFACE	6	D (in.)	AMP		225		MAINS		SUBFEED LUGS								
		H							ISO GROUND								
									200% NEUTRAL								
BRANCH BREAKERS																	
ITEM	AMPS	POLE	WIRE SIZE	CIR. NO.	LEFT PHASE LOAD			RIGHT PHASE LOAD			CIR. NO.	AMPS	POLE	WIRE SIZE	ITEM		
LIGHTING 1ST FLOOR	20	1	10	3	2200	A	B	C	2500	A	B	C	2	20	1	12	LIGHTING 2ND FLOOR
LIGHTING 1ST FLOOR	20	1	10	3					2900				4	20	1	12	LIGHTING 2ND FLOOR
LIGHTING 1ST FLOOR	20	1	10	5			2600					2700	6	20	1	12	LIGHTING 2ND FLOOR
SPACE ONLY				7					900				8	20	1	12	LIGHTING 2ND FLOOR
SPACE ONLY				9									10	20	1	12	SPARE
SPACE ONLY				11									12	20	1	12	SPARE
SPACE ONLY				13									14	20	1	12	SPARE
SPACE ONLY				15									16	20	1	12	SPARE
SPACE ONLY				17									18	20	1	12	SPARE
SPACE ONLY				19									20	20	1	12	SPARE
SPACE ONLY				21									22				SPACE ONLY
SPACE ONLY				23									24				SPACE ONLY
SPACE ONLY				25									26				SPACE ONLY
SPACE ONLY				27									28				SPACE ONLY
SPACE ONLY				29									30				SPACE ONLY
SPACE ONLY				31									32				SPACE ONLY
SPACE ONLY				33									34				SPACE ONLY
SPACE ONLY				35									36				SPACE ONLY
SPACE ONLY				37									38				SPACE ONLY
SPACE ONLY				39									40				SPACE ONLY
SPACE ONLY				41									42				SPACE ONLY
					2200	2425	2600	3400	2900	2700							
					5600	5325	5300	TOTAL									
					20.22	19.22	19.13	AMPS/PHASE									
											CONNECTED LOAD TOTAL 16225 VA						
JOB NAME: CONFERENCE ROOM REMODEL											EQUIP RATING 14000 AMPS RMS SYM.						

PANEL	LMA	TYPE	EXISTING	120/208	VOLTS	3	PH	4	W					
MOUNTING		DIMENSIONS		LOCATION		ELEC RM P215		X LUGS BREAKER MAINS SUBFEED LUGS ISO GROUND 200% NEUTRAL						
FLUSH X SURFACE		20 W 6 D (in.) H		AMP		225								
BRANCH BREAKERS														
ITEM	AMPS	POLE	WIRE SIZE	CIR. NO.	LEFT PHASE LOAD		RIGHT PHASE LOAD		CIR. NO.	AMPS	POLE	WIRE SIZE	ITEM	
					A	B	C	A	B	C				
RECEPTACLES	20	1	12	1	720			900			2	20	1	12
POKE-THRU SPARE IG	20	1	12	3							4	20	1	12
POKE-THRU SPARE IG	20	1	12	5		480			900		6	20	1	12
POKE-THRU SPARE IG	20	1	12	7	420		420	540		900	6	20	1	12
POKE-THRU SPARE IG	20	1	12	9		480			900		8	20	1	12
POKE-THRU SPARE IG	20	1	12	11			420			900	10	20	1	12
POKE-THRU SPARE IG	20	1	12	13	420			900			12	20	1	12
POKE-THRU SPARE IG	20	1	12	15		1440			900		14	20	1	12
POKE-THRU SPARE IG	20	1	12	17			1260			900	16	20	1	12
POKE-THRU SPARE IG	20	1	12	19	1260			540			18	20	1	12
POKE-THRU SPARE IG	20	1	12	21		1440			900		20	20	1	12
POKE-THRU SPARE IG	20	1	12	23			1260			540	22	20	1	12
POKE-THRU SPARE IG	20	1	12	25	1260			540			24	20	1	12
POKE-THRU SPARE IG	20	1	12	27		720			900		26	20	1	12
NEW CONF RM CO'S	20	1	12	29			1080			720	28	20	1	12
GFI RECEPT L PARK	20	1	12	31	900					720	30	20	1	12
GFI RECEPT V PARK	20	1	12	33		1080					32	20	1	12
GFI RECEPT V PARK	20	1	12	35			720				34	20	1	12
GFI RECEPT V PARK	20	1	12	35							36	20	2	12
NEW CONF RM CO'S	20	1	12	37	720						38	20	1	12
SPARE	20	1	12	39					1000		40	20	1	12
SPARE	20	1	12	41						1000	42	20	1	12
					5700	5640	5160	4140	5500	4960				
					9840	11140	10120	TOTAL						
					82.00	92.83	84.33	AMPS/PHASE						
										CONNECTED LOAD TOTAL 31100 VA				
JOB NAME: CONFERENCE ROOM REMODEL										EQUIP RATING 22000 AMPS RMS SYM.				

PANEL	LS		TYPE		EXISTING		120/208			VOLTS			3		PH		4		W				
MOUNTING		DIMENSIONS				LOCATION				CAMERA ROOM 102				X		LUGS							
X FLUSH		20 W												MAINS		BREAKER							
X SURFACE		6 D (in.)				AMP				225						SUBFEED LUGS							
		H														ISO GROUND							
																200% NEUTRAL							
BRANCH BREAKERS																							
ITEM	AMPS	POLE	WIRE SIZE	CIR. NO.	LEFT PHASE LOAD			RIGHT PHASE LOAD			CIR. NO.	AMPS	POLE	WIRE SIZE	ITEM								
EXPED. RAYALE	20	3	12	1	1200			540			2	20	1	12	RECEPTILES								
-	-	-	-	5		1200				900	4	20	1	12	RECEPTILES								
-	-	-	-	5							6	20	1	12	SPARE								
USED	20	1	8	7	3000						8	20	1	12	SPARE								
USED	20	1	8	9		3000			800		10	20	1	12	FLOOR OUTLET								
USED	20	1	8	11			3000				12	20	2	12	SPARE								
EXPED. IMPERIAL	20	1	10	13	2200						14	-	-	-	-								
CAMERA	20	1	10	15		2500					16	20	2	12	COPIER ROOM 101								
PROCESSOR	20	1	12	17			1800				18	-	-	-	-								
PLATE MAKER	20	1	12	19	1500			720			20	20	1	12	RECEPTILES								
SPARE	20	1		21					900		22	20	1	12	RECEPTILES								
SPARE	20	1		23						900	24	20	1	12	RECEPTILES								
MULTI-2850	20	1	12	25	1200				900		26	20	1	12	RECEPTILES								
FLOOR OUTLET	20	1	12	27		800				900	28	20	1	12	RECEPTILES								
CUTTER	40	3	12	29			960				30	20	1	12	RECEPTILES								
-	-	-	-	31	960			500			32	20	1	12	RED LIGHTS								
-	-	-	-	33		960					34	20	1	12	ROOF EXHAUST FAN								
SPARE	20	1		35							36	20	2	12	TWO COLOR PRESS								
SPARE	20	1		37							38	-	-	-	-								
FLOOR OUTLET	20	1	12	39		800			1200		40	20	1	12	COLLATOR								
DRILL & STITCHER	20	1	12	41			1300			1080	42	20	1	12	FOLDER, STITCHER								
					10080	9260	8260	2660	4700	2880													
					12720	13960	11140	TOTAL								CONNECTED LOAD TOTAL							
					106.00	116.33	92.83	AMPS/PHASE								37820 VA							
JOB NAME: CONFERENCE ROOM REMODEL																		EQUIP RATING		10000		AMPS RMS SYM.	

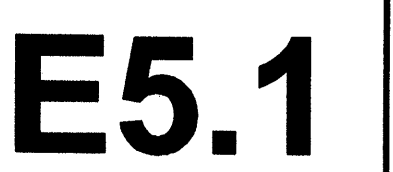
PANEL	LAC	TYPE	EXISTING	120/208	VOLTS	3	PH	4	W
MOUNTING		DIMENSIONS		LOCATION	ELEC RM P215	MAINS	X LUGS BREAKER SUBFEED LUGS ISO GROUND 200% NEUTRAL		
	FLUSH		20 W				AMP	225	
	X SURFACE		6 D (in.)						
			H						

BRANCH BREAKERS															
ITEM	AMPS	POLE	WIRE SIZE	CIR. NO.	LEFT PHASE LOAD			RIGHT PHASE LOAD			CIR. NO.	AMPS	POLE	WIRE SIZE	ITEM
					A	B	C	A	B	C					
CONF RM FLOOR CO'S	20	1	12	1	360			1200			2	20	3	12	EXPED. RAYALE
CONF RM FLOOR CO'S	20	1	12	3		360		1200			4	-	-	-	-
CONF RM FLOOR CO'S	20	1	12	5			360		1200	6	-	-	-	-	-
NEW CONF RM CO'S	20	1	12	7	540			720			8	20	1	12	INSERT RM CO'S
NEW CONF RM CO'S	20	1	12	9		900			540		10	20	1	12	INSERT RM CO'S
NEW CONF RM CO'S	20	1	12	11			720			3000	12	40	3	8	EXPED. RAYALE
SPACE	20	1	12	13				3000			14	-	-	-	-
NEW CONF RM CO'S	20	1	12	15			720		3000		16	-	-	-	-
NEW CONF RM DMIDER	20	3	12	17				553		2200	18	25	1	10	EXPED. IMPERIAL
-	-	-	-	19		553					20				SPACE
-	-	-	-	21			553				22				SPACE
SPACE				23							24				SPACE
SPACE				25							26				SPACE
SPACE				27							28				SPACE
SPACE				29							30				SPACE
SPACE				31							32				SPACE
SPACE				33							34				SPACE
SPACE				35							36				SPACE
SPACE				37							38				SPACE
SPACE				39							40				SPACE
SPACE				41							42				SPACE
					1453	2533	1633	4920	4740	6400					
					6373	7273	8033	TOTAL							
					53.11	60.61	66.94	AMPS/PHASE							

CONNECTED LOAD TOTAL
 21679 VA

EQUIP RATING
 22000

AMPS RMS SYM.



PARTS LIST			
ITEM No.	DESCRIPTION	SIZE	CATALOG No. UNISTRUT
①	THREADED ROD (MIN. MODULUS OF ELASTICITY = 29x10 ⁶ LBS/IN)	SEE SCHEDULE FOR DIAMETER	-
②	METAL FRAMING CHANNEL	1-5/8"x1-5/8"	P1000
③	ADJUSTABLE HINGE	2-1/8"x2-1/8"	P1843
④	HEX HEAD CAP SCREW WITH SPRING NUT	1/2"-13"	HHCS/P1010
⑤	FLAT WASHER WITH HEX NUT	3/8"	-
⑥	FLAT PLATE FITTING WITH HEX NUT CRADLE	3/8" OR 1/2" AS REQ'D	P1063 OR P1064
⑦	HEX HEAD CAP SCREW WITH NUT	3/8"x1"	P2485
⑧	HEX HEAD CAP SCREW WITH NUT	3/8"x1"	HHCS/P2008
⑨	SLOTTED METAL FRAMING CHANNEL	1-5/8"x1-5/8"	P1000T

SIZE (IN)	RIGID CONDUIT			INTERMEDIATE CONDUIT			EMT CONDUIT		
	#/FT	#/CPLG	TOTAL #/10FT	#/FT	#/CPL	TOTAL #/10FT	#/FT	#/CPL	TOTAL #/10FT
1/2	0.820	0.14	8.34	0.570	0.14	5.84	0.295	0.07	3.02
3/4	1.120	0.24	11.44	0.780	0.24	8.04	0.445	0.12	4.57
1	1.600	0.39	16.39	1.120	0.39	11.59	0.650	0.20	6.70
1-1/4	2.160	0.47	22.07	1.440	0.47	14.87	0.960	0.24	9.84
1-1/2	2.680	0.66	27.46	1.760	0.66	18.26	1.110	0.33	11.43
2	3.500	1.05	36.05	2.350	1.05	24.55	1.410	0.53	14.63
2-1/2	5.600	1.80	57.80	3.930	1.80	41.10	2.300	0.90	23.90
3	7.120	3.00	74.20	4.830	3.00	51.30	2.700	1.50	28.50
3-1/2	8.520	3.90	89.10	5.610	3.90	60.00	-	-	-
4	10.300	4.00	107.00	6.250	4.00	66.50	4.000	2.00	42.00
5	13.910	7.60	146.70	-	-	-	-	-	-
6	18.500	10.75	195.75	-	-	-	-	-	-

NOTES:
 (1) WEIGHTS USED ARE FOR RIGID STEEL CPLGS
 (2) WEIGHTS USED ARE EQUAL TO .5 TIMES RIGID STEEL CPLGS

FEEDER WEIGHTS (COPPER CONDUCTORS)				
TYPE	AMPERE RATING	W/RIGID (PER 10')	W/MC (PER 10')	W/EMT (PER 10')
20	30	12.81	9.21	5.74
30	30	13.00	9.60	6.13
40	30	13.39	9.99	6.52
50	40	13.42	10.02	6.56
60	40	14.08	10.68	7.21
70	40	14.74	11.34	7.87
80	55	14.38	10.98	7.51
90	55	15.36	11.96	8.49
100	55	21.29	16.49	11.60
125	70	16.09	12.69	9.22
150	70	22.59	17.79	12.90
175	70	29.82	22.82	17.59
200	85	31.47	24.27	19.24
250	85	33.82	26.62	21.59
300	110	34.07	26.87	21.84
350	110	42.46	33.26	26.43
400	150	39.54	30.34	23.51
450	150	43.24	34.04	27.21
500	175	42.24	33.04	26.21
550	175	55.43	43.83	34.01
600	200	54.13	42.63	32.71
650	200	59.83	48.33	38.41
700	250	58.90	47.40	37.48
750	250	87.75	71.05	53.85
800	255	62.95	51.45	41.53
850	255	93.15	78.45	59.25
900	310	94.85	77.95	60.76
950	310	122.70	99.80	77.00
1000	335	115.85	92.95	70.15
1100	335	129.10	106.20	83.40
1200	360	140.20	111.10	93.10
1300	360	156.60	127.50	109.50

CONDUCTOR WEIGHTS			
WIRE SIZE	#/FT	FOUR CONDERS	
14	0.016	0.064	
12	0.025	0.100	
10	0.039	0.156	
8	0.066	0.264	
6	0.098	0.392	
4	0.155	0.620	
3	0.190	0.760	
2	0.235	0.940	
1	0.300	1.200	
1/0	0.370	1.480	
2/0	0.460	1.840	
3/0	0.570	2.280	
4/0	0.710	2.840	
250	0.845	3.380	
300	1.020	4.080	
350	1.165	4.660	
400	1.325	5.300	
500	1.640	6.560	
600	2.005	8.020	
750	2.480	9.920	
1000	3.300	13.200	

NOTES:
 1. PROVIDE LONGITUDINAL AND LATERAL SUPPORT SPACING IN ACCORDANCE WITH THE FOLLOWING:

MAX. CONDUIT/ WIRE WT.	VERTICAL SUPPORT SPACING	LATERAL SUPPORT SPACING	LONGITUDINAL SUPPORT SPACING	ROD DIAMETER	CONTROL BUCKLING LENGTH (2)
POUNDS/FOOT	FEET	FEET	FEET	INCHES	INCHES
15	10	20	20	.375	18
30	10	10	20	.375	12
45	10	10	20	.375	10
60	10	10	20	.500	16

2. PROVIDE METAL FRAMING CHANNEL ON ALL VERTICAL SUPPORTS WHEN ROD LENGTH EXCEEDS SPECIFIED VALUES. STIFFENER CLIP SPACING SHALL BE AS INDICATED.
 3. PROVIDE LATERAL SUPPORTS AT SPACING INDICATED ON ALTERNATE SIDES OF CONDUIT RACK.
 4. SEE SPECIFICATIONS FOR APPROVED FITTINGS FOR ATTACHMENT TO STRUCTURE.

GENERAL NOTES

- COORDINATE ROUTING OF CABLE TRAYS AND SUPPORT SYSTEMS WITH DIVISION 15.
- DO NOT SUPPORT FROM BOTTOM CORD OF STEEL TRUSSES.

DIAGRAM H007 SEISMIC BRACING FOR CONDUIT RACK/UNISTRUT (EXPOSED STRUCTURE OR ABOVE CEILING ONLY)

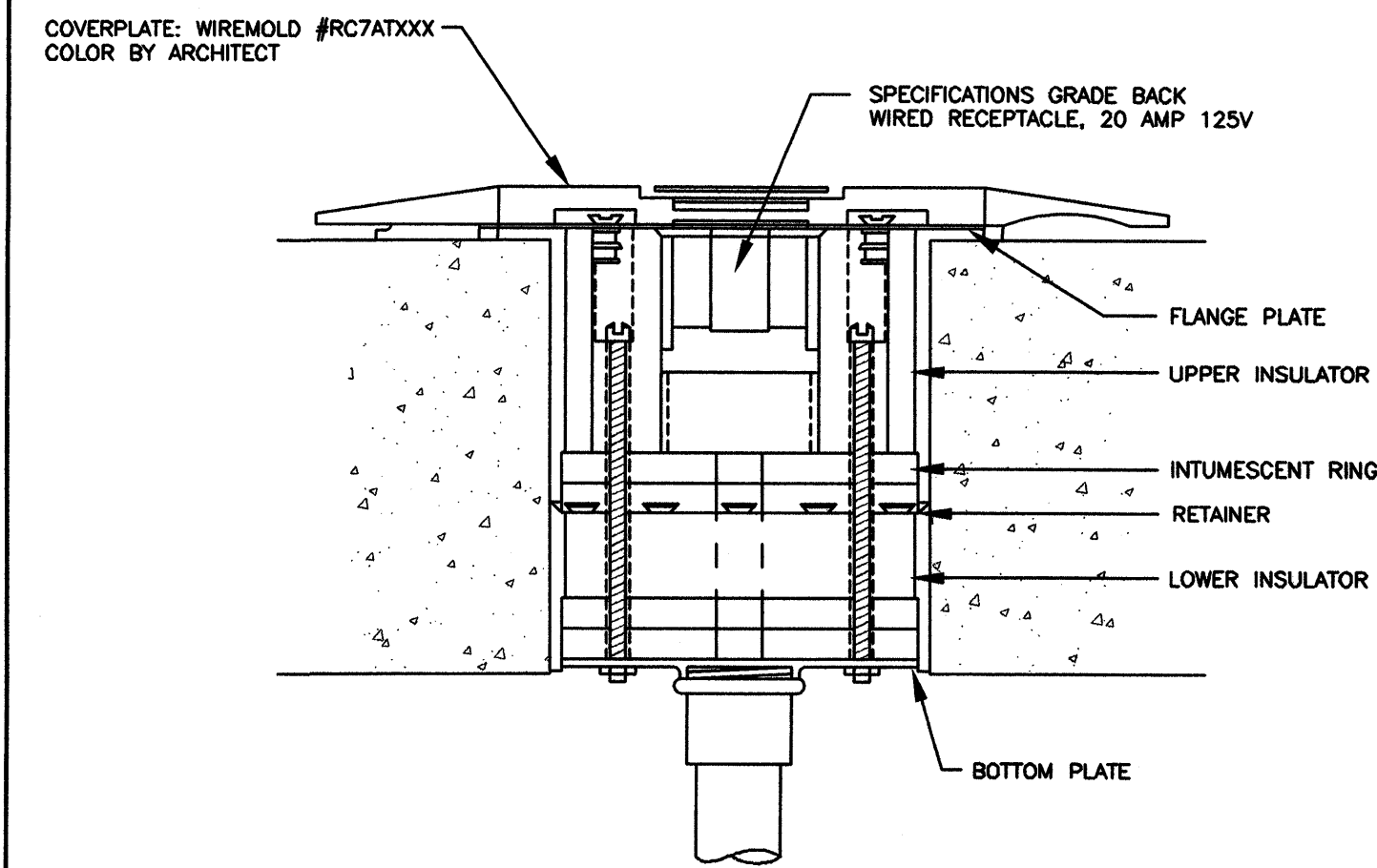
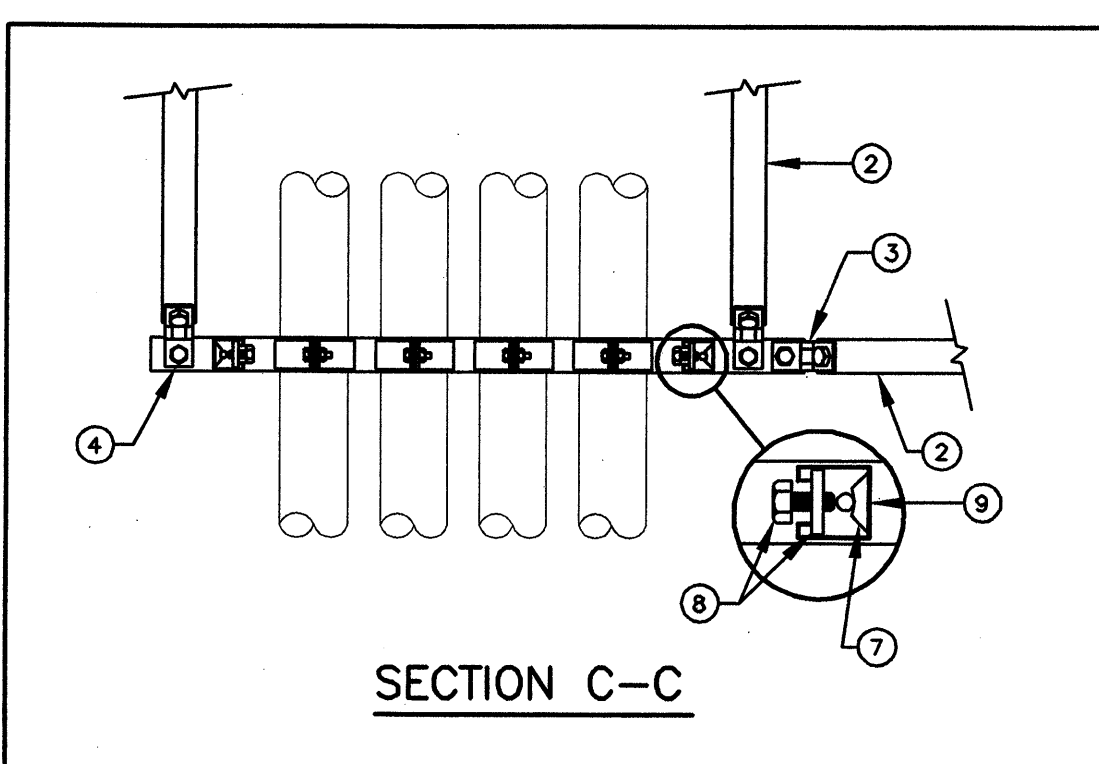
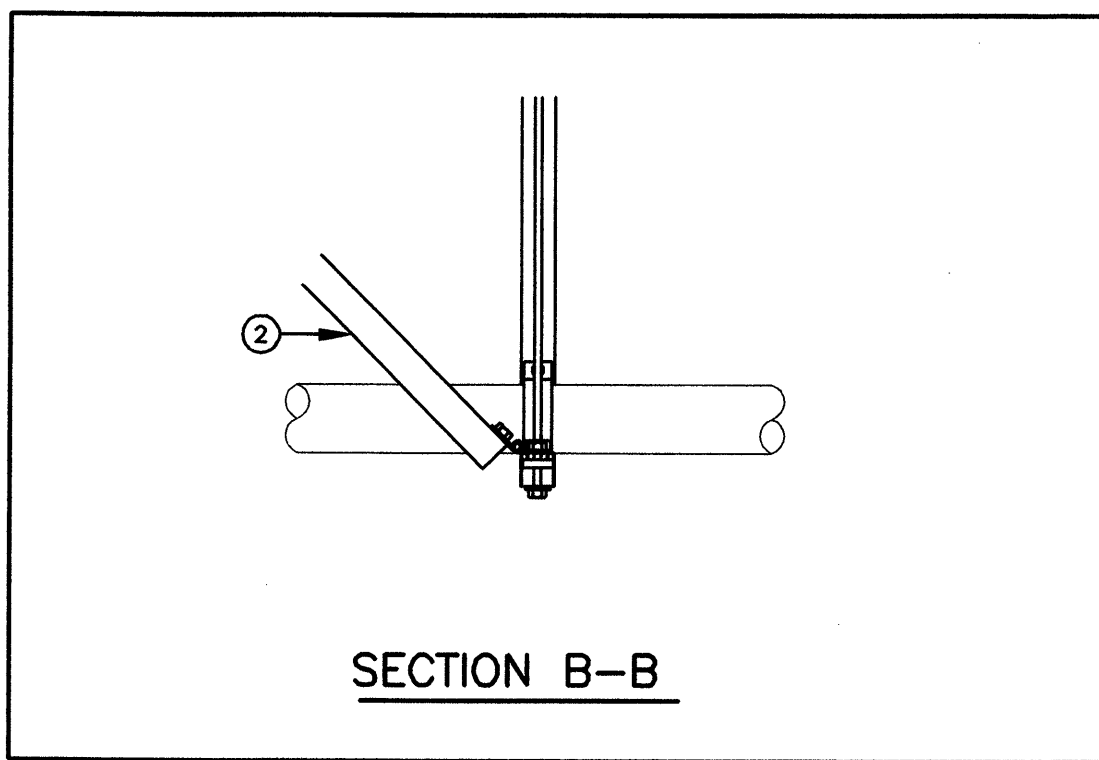
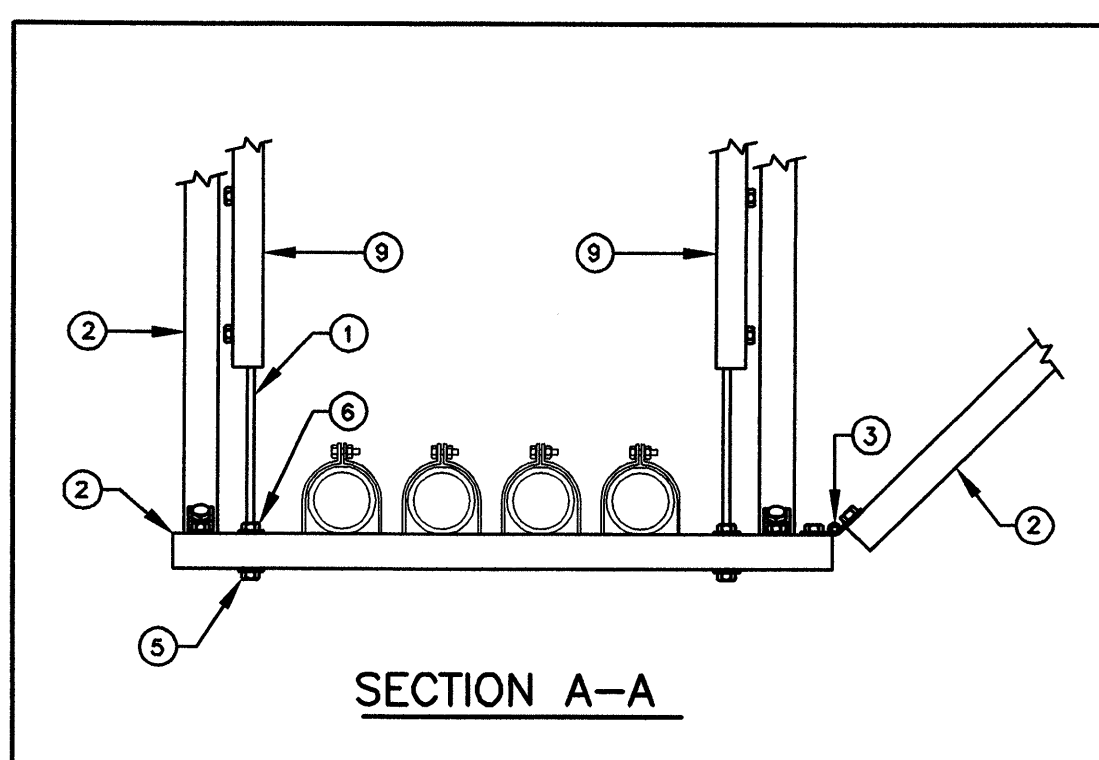
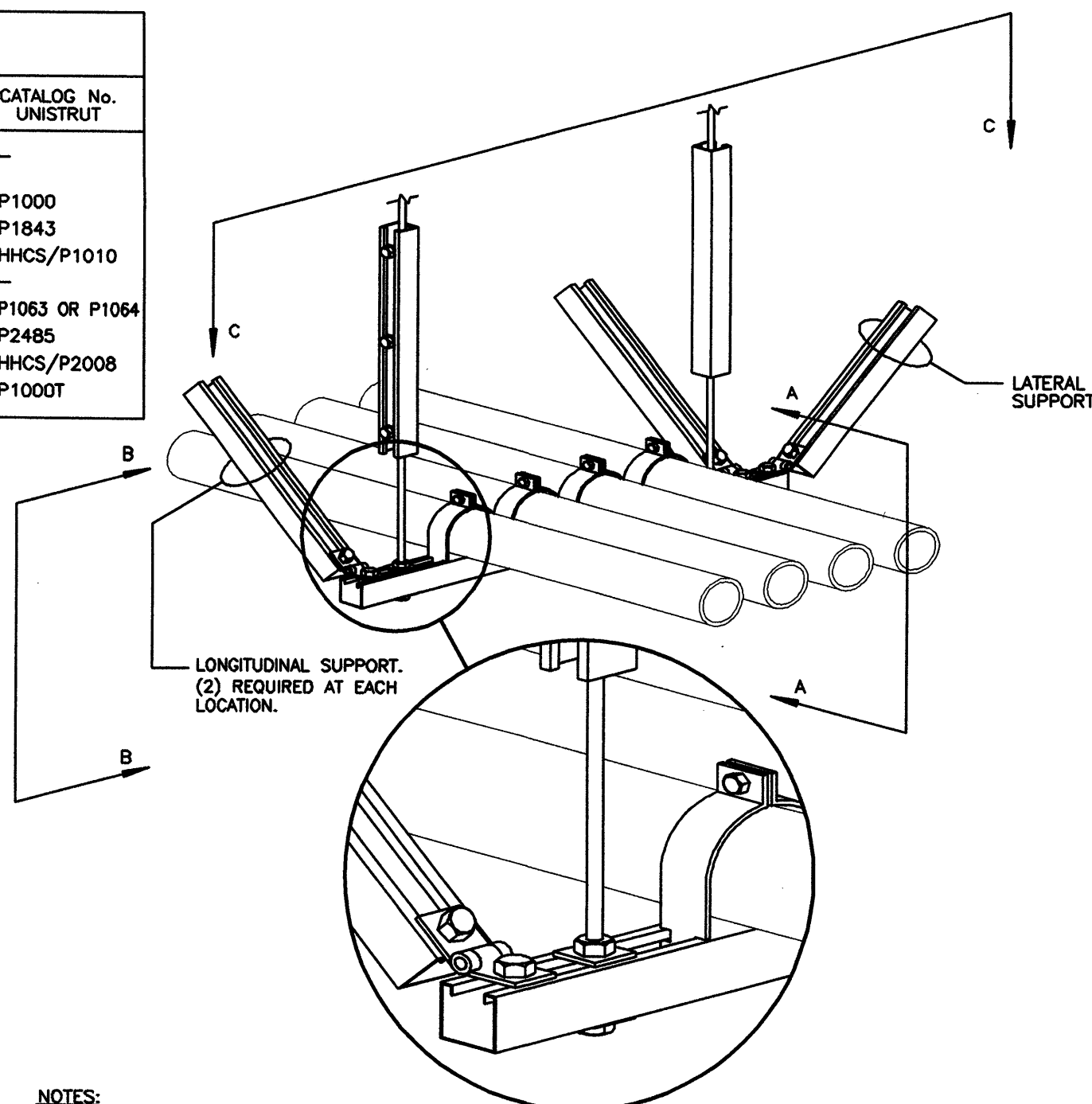


DIAGRAM L004 FLOOR BOX INSTALLATION NTS

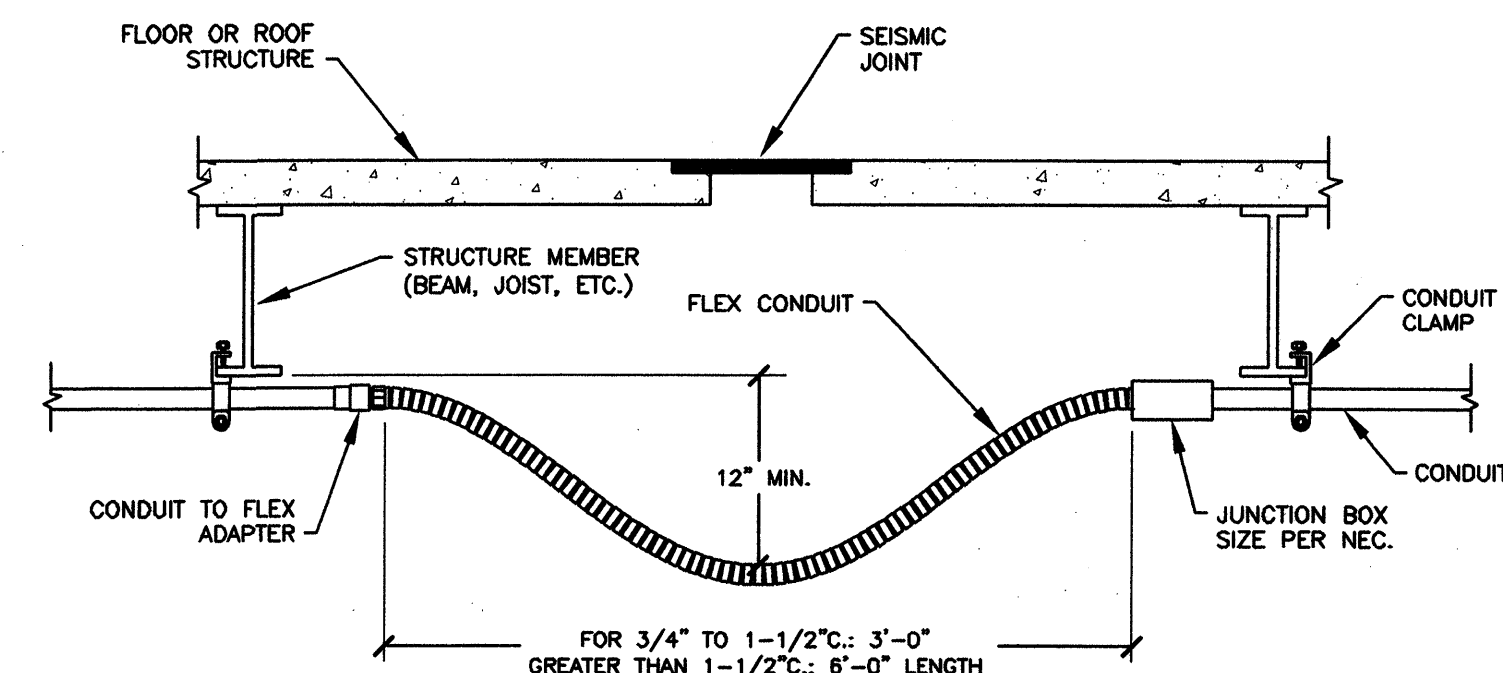
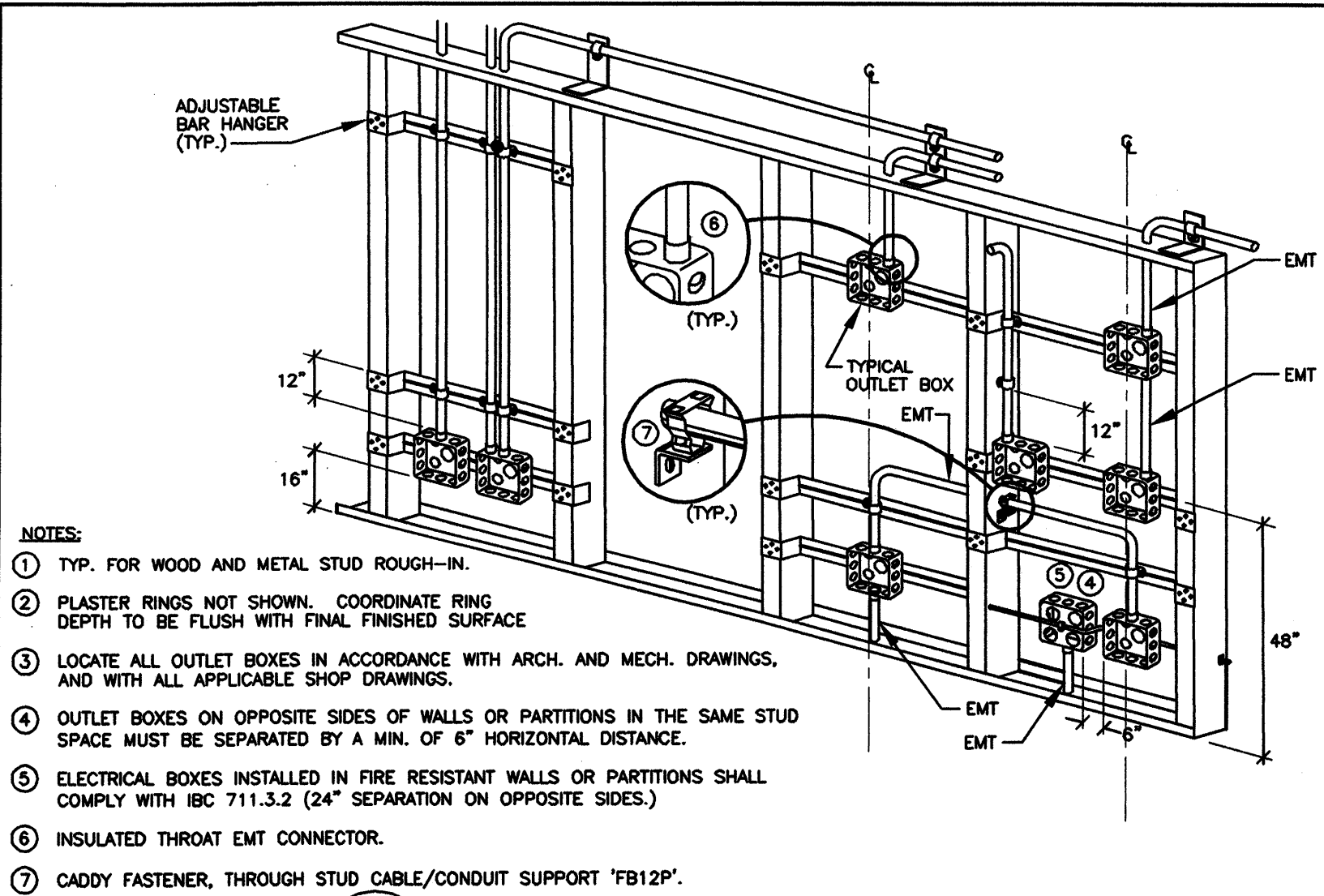
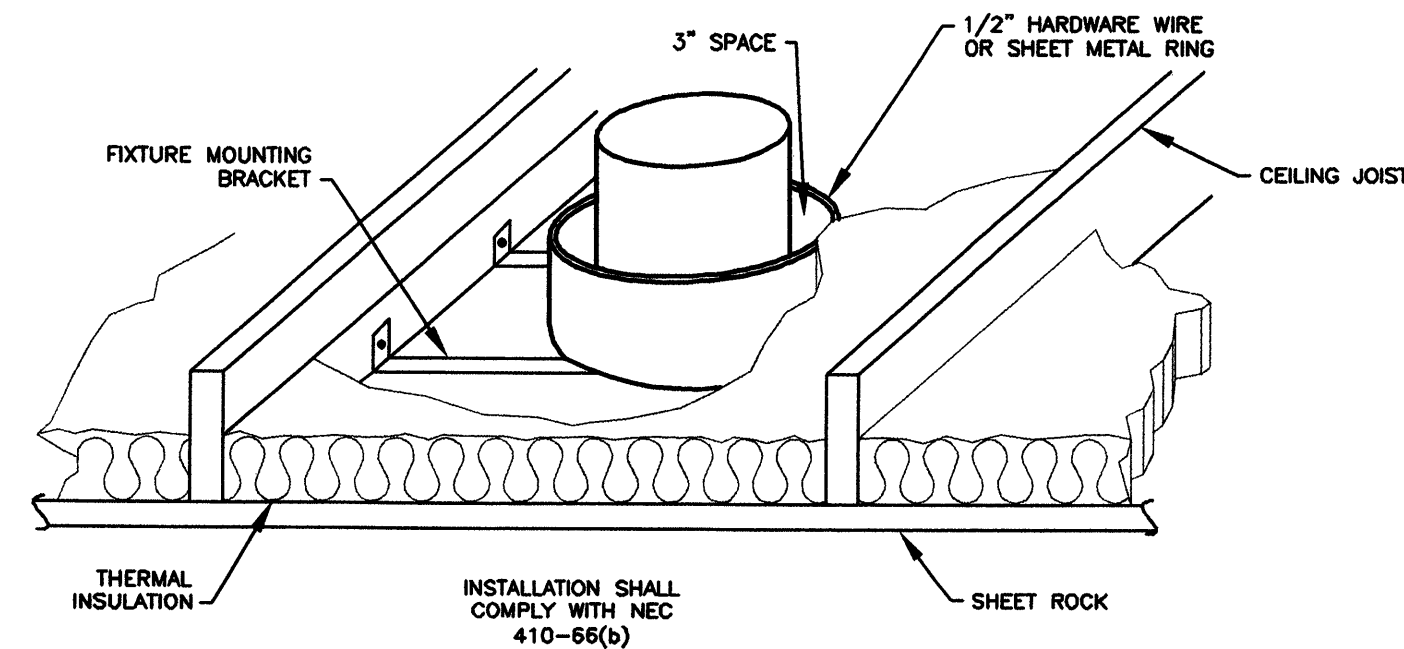


DIAGRAM H010 CONDUIT CROSSING SEISMIC JOINT NTS



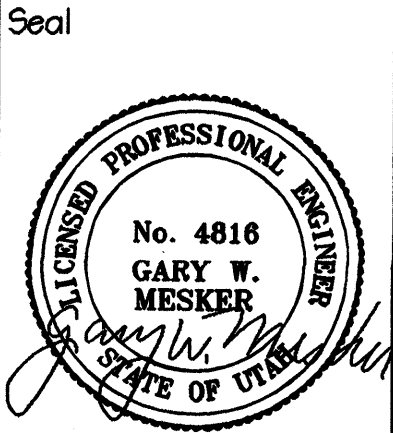
- NOTES:
 ① TYP. FOR WOOD AND METAL STUD ROUGH-IN.
 ② PLASTER RINGS NOT SHOWN. COORDINATE RING DEPTH TO BE FLUSH WITH FINAL FINISHED SURFACE.
 ③ LOCATE ALL OUTLET BOXES IN ACCORDANCE WITH ARCH. AND MECH. DRAWINGS, AND WITH ALL APPLICABLE SHOP DRAWINGS.
 ④ OUTLET BOXES ON OPPOSITE SIDES OF WALLS OR PARTITIONS IN THE SAME STUD SPACE MUST BE SEPARATED BY A MIN. OF 6" HORIZONTAL DISTANCE.
 ⑤ ELECTRICAL BOXES INSTALLED IN FIRE RESISTANT WALLS OR PARTITIONS SHALL COMPLY WITH IBC 711.3.2 (24" SEPARATION ON OPPOSITE SIDES).
 ⑥ INSULATED THROAT EMT CONNECTOR.
 ⑦ CADDY FASTENER, THROUGH STUD CABLE/CONDUIT SUPPORT 'FB12P'.

DIAGRAM H004 TYPICAL ROUGH IN REQUIREMENTS NTS



NOTE:
 THIS REQUIREMENT IS FOR ALL DOWN LIGHT FIXTURES THAT ARE NOT 'IC' RATED

DIAGRAM A013 RECESSED DOWN LIGHT NTS



Revisions:
 Date Description

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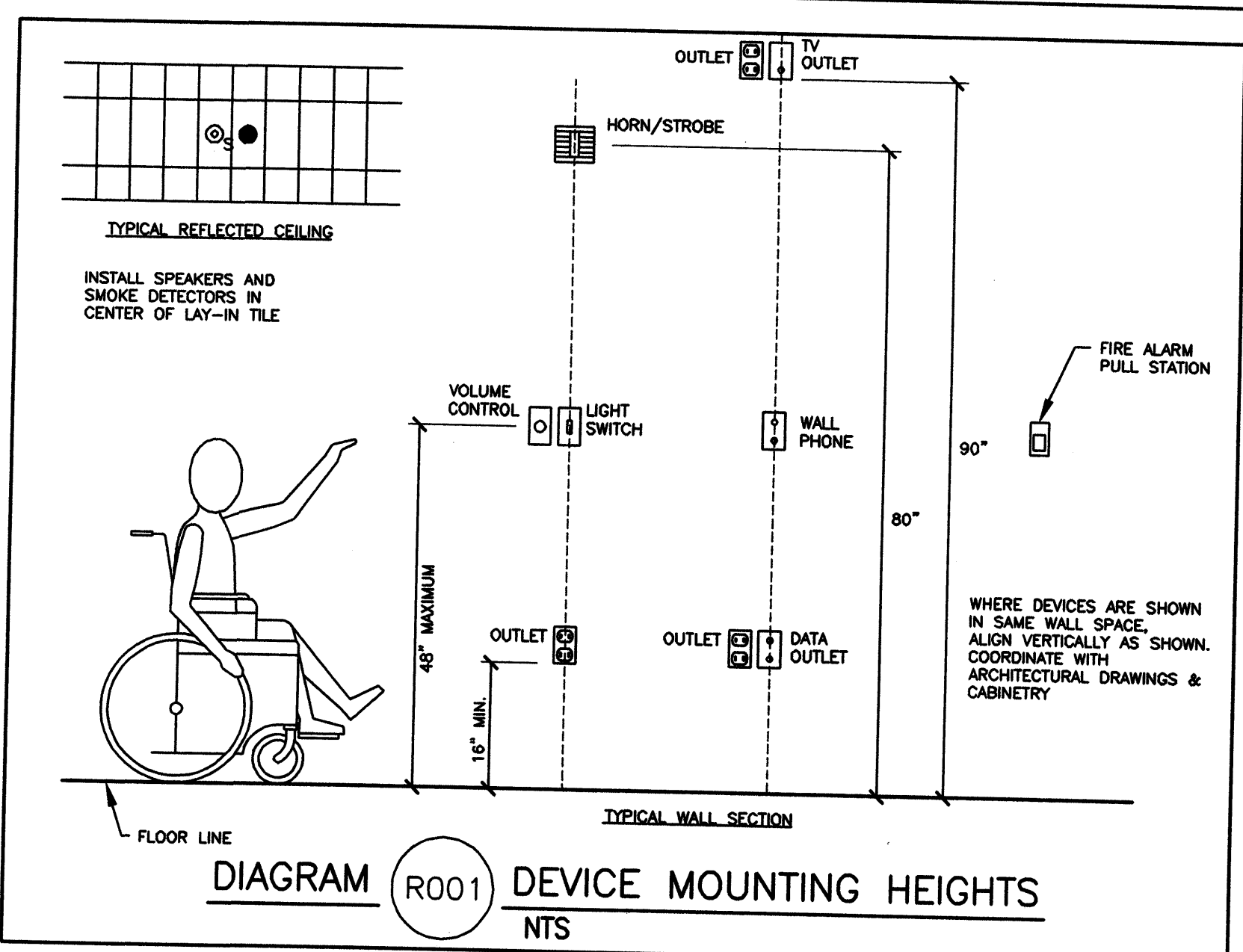
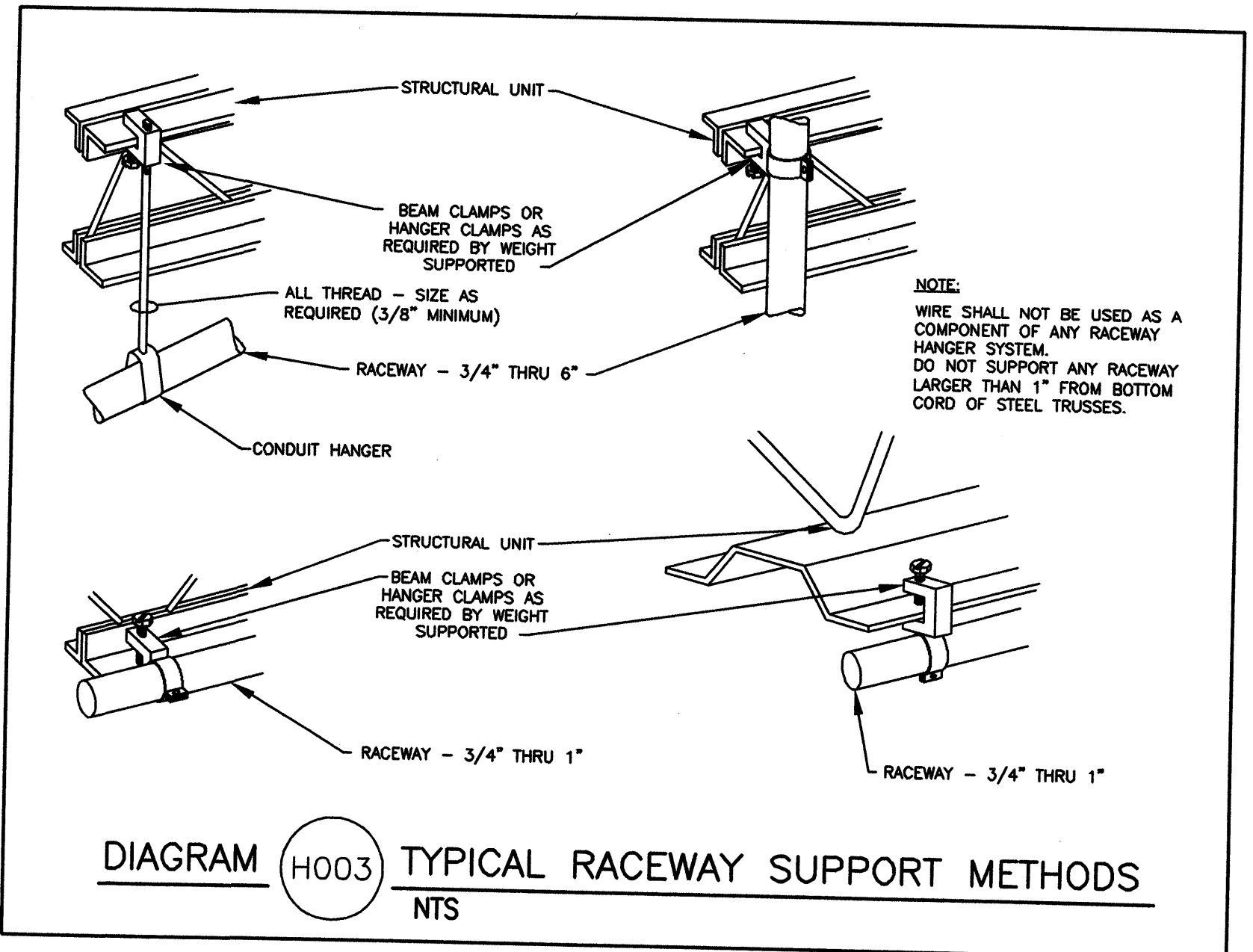
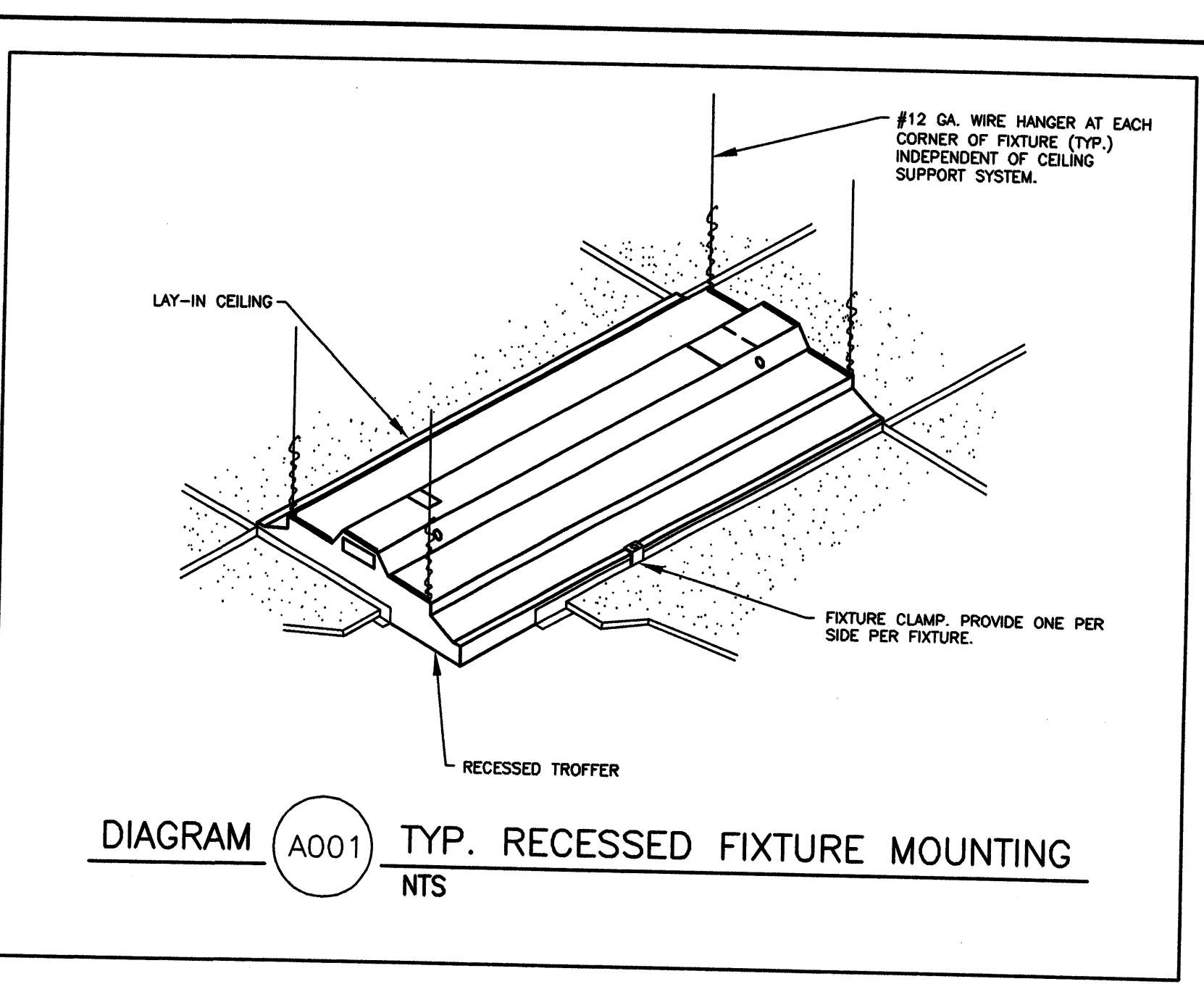
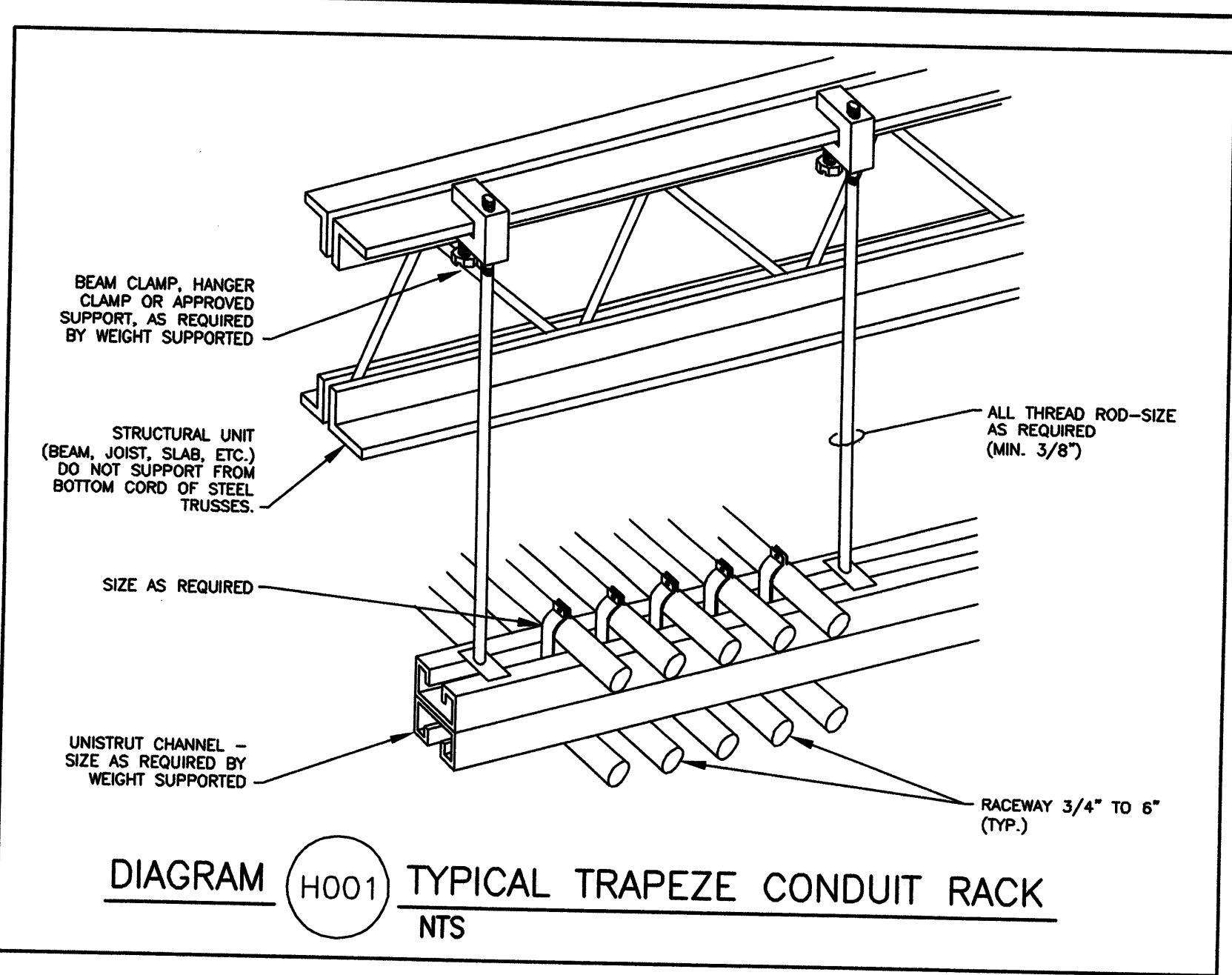
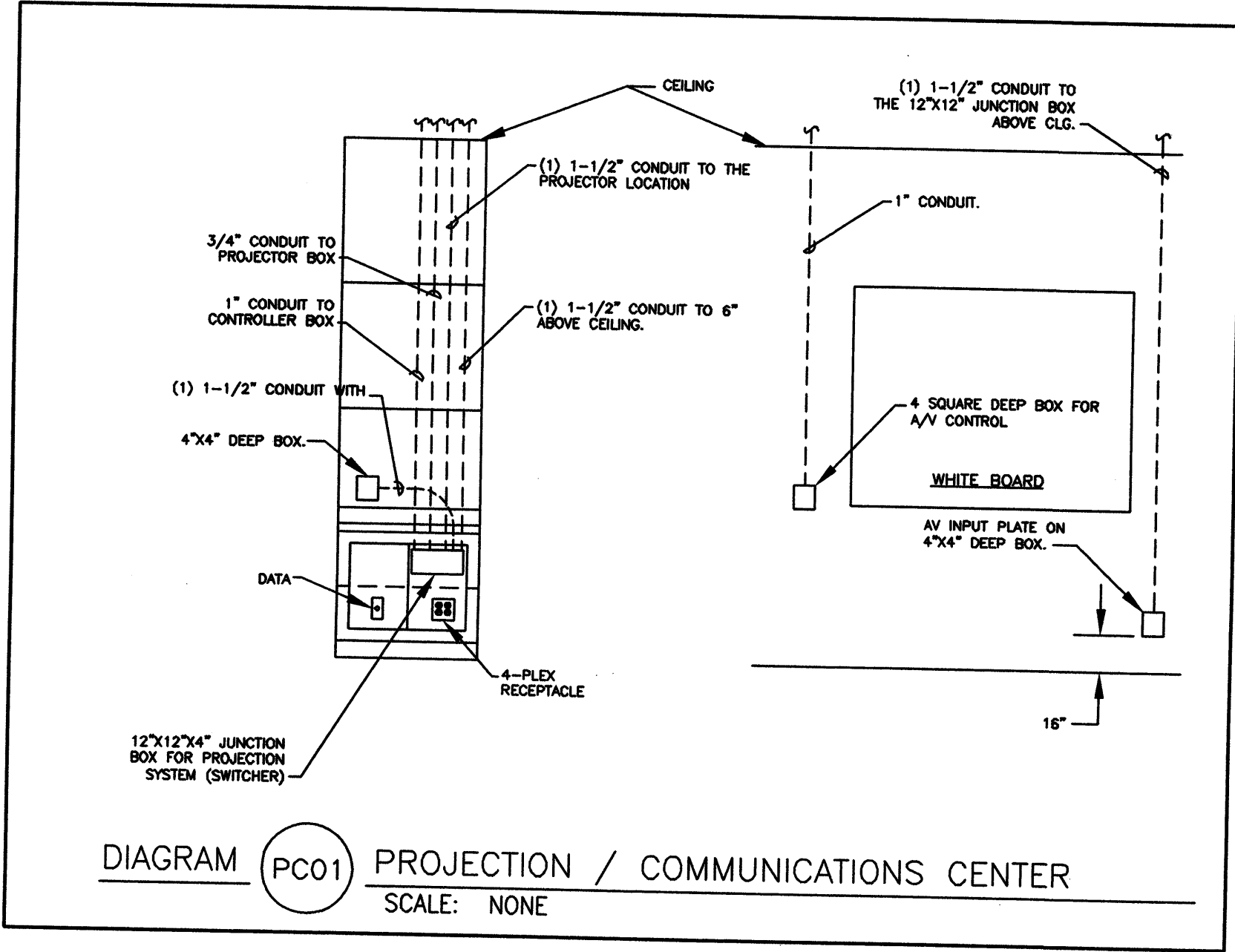
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**DAS ADMINISTRATION BUILDING
 FIRST FLOOR CONFERENCE ROOM REMODEL
 FOR THE STATE OF UTAH DCM
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 SALT LAKE CITY, UTAH 84111**

Date: 7/12/06
 Drawn: BNA
 Checked: LM

ELECTRICAL
 DIAGRAMS

E6.1



Seal

PROFESSIONAL ENGINEER
No. 4816
GARY W. MESKER
STATE OF UTAH

Revisions:
Date Description

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Date: 7/12/06
Drawn: BNA
Checked: LM

ELECTRICAL
DIAGRAMS

E6.2